

REPORT TO THE
MINISTER OF LABOUR
BY THE
ONTARIO
PAY EQUITY COMMISSION

RESEARCH REPORT I



THE
PAY EQUITY
COMMISSION



PAY EQUITY IN PREDOMINANTLY FEMALE
ESTABLISHMENTS: MANUFACTURING SECTOR

PREPARED FOR THE
PAY EQUITY COMMISSION
PROVINCE OF ONTARIO

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THE VIEWS EXPRESSED HEREIN ARE THOSE OF THE AUTHOR AND DO NOT
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INTRODUCTION

This report examines the nature of women's work in predominantly female establishments within the manufacturing sector. Specifically, the following areas are examined -

- o Industries in the sector.
- o Number of establishments by industry, by size.
- o Proportion of female employees and employment within industries by size of establishment.
- o Occupations and Compensation Paid,
- o Human Resource Policies,
- o Employee and Employment characteristics,
- o Historical development, current challenges, future directions of industries in the sector,
- o Pay Equity Issues and Options.

Study Approach

The study is based on two data sources (1) quantitative information describing the sector characteristics including the industry divisions, the concentration of female employment, occupations and compensation paid; and, (2) qualitative information describing employee and employment characteristics, human resources policies and practices and future directions and challenges.

INDUSTRIES IN THE SECTOR

The manufacturing sector has been referred to as the engine of the Ontario economy. Establishments within this sector are either privately owned or publicly traded. Of the 15,570 establishments in 1985, 1,131 were individual ownerships, 318 were partnerships, 14,098 were incorporated companies and 23 were cooperatives.

The manufacturing sector is divided into eighteen subsectors/industry divisions and two hundred and one (201) separate industries (excludes industries related to textile manufacture to be dealt with in a separate report).

The subsectors or industry divisions within the sector are quite separate and distinct in terms of what they manufacture, the technology and people they employ, as well as the markets they serve.

Within an industry division there are a variety of industries who specialize in the manufacture of particular products. The process of manufacture has distinct similarities within industries in particular divisions but is not likely to resemble the process in other industry divisions. For example, the process of manufacturing electrical products is quite distinct from that of plastic products. The process of manufacturing petroleum and coal products is unique and distinct from that for food. Within industries manufacturing electrical products however, the process of manufacture is quite similar. Likewise the process within industries manufacturing food

products.

The process of manufacture within an industry to some degree determines the technology and skills employed. The technology and skills in turn influence wage setting practices. Wage setting practices within a particular industry will therefore be a function of the technology employed, of the skills needed, as well as the degree of unionization, competitiveness in the industry, the size of establishment, and its ability/willingness to pay.

Table 1 identifies the eighteen industry divisions in the manufacturing sector, as well as the number of establishments in each industry division by size. The number of establishments in any particular industry division varies widely from eleven in tobacco products to 3,940 for metal fabrication. One half of the industry divisions have less than one thousand establishments. The breakdown of the manufacturing sector by industry division however does not provide adequate evidence of the diversity that may exist within industries and where/if females are concentrated in particular industries and subsequently in particular occupations.

Table 2 identifies the two hundred and one industries in the manufacturing sector, the total number of establishments in each industry, the total number of establishments by size, and the proportion each size category contributes to the total number of establishments in the sector.

Only two (1%) industries have more than one thousand

establishments; sixty five (32.3%) have twenty five or less; thirty nine (19.4%) have 26-49; forty one (20.3%) have 50-99; twenty six (12.9%) have 100-199; nineteen (9.4%) have 200-400; and nine (4.5%) have between 400-999.

Almost fifty percent (11,054) of the establishments in the manufacturing sector employ less than ten people while seven percent (1,620) employ more than one hundred. (Excludes consideration of establishments where the number of employees is unknown). Eighteen (9%) industries in the sector do not have any establishments with more than 100 employees.

An examination of the distribution of specific industries by size indicates a wide variation in the both the total number and proportion of establishments in each size category. For example, forty percent (11) of the biscuit industries, fifty percent (11) of the dry pasta, thirty eight percent (7) of the potato chip, pretzel and popcorn industry, fifty three percent (153) of the electronic parts and components industry, fifty five percent (98) of the electronic computing and peripherals, thirty six percent (24) of other electrical products, thirty seven percent (40) of the pharmaceutical and medicine industry, thirty four percent (28) of the toilet preparations industry, sixty six percent (60) of the toys and games industry, forty six (13) percent of the broom, brush and mop industry have less than ten employees.

Excluding the category for which the number employed is not known, thirty one percent (6,551) of the establishments have more than twenty employees however, more than half of these are

establishments that employ less than fifty people.

CONCENTRATION OF FEMALE EMPLOYMENT

Table 3 identifies the concentration of female employment in the manufacturing sector by industry and size of establishment.

Twenty five percent of all production and related workers in manufacturing are female, thirty two percent of all administration office and non-manufacturing employees are female.

Production and Related

Females are not represented in production and related workers in twenty percent (41) of the industries; represent less than ten percent in thirty six percent (72) of the industries and represent between ten and twenty percent in an additional twenty seven percent (55) of the industries. That is, in eighty five percent of the industries females represent less than one in five of the production and related workers.

In eight percent (14) of the industries females represent fifty percent or more of the production and related workers.

Industries that have in excess of fifty percent female production and related workers include poultry products (55.5%); the biscuit industry (61.5%); sugar and chocolate confectionery (52.6%); the potato chip, pretzel and popcorn industry (51.1%); motor vehicle fabrics (62.7%); electronic parts and components (56.9%); other electrical products industries (61.4%); pharmaceutical and medicine industry (54.6%); toilet preparations (66.0%); toys and games (70.1%); brush, broom and mop industry (62.2%); and the musical instrument and sound recording industry (52.0%). These industries represent twelve percent (20,340) of

the total female employment in production and related occupations.

Forty one percent (11) of the establishments in biscuit industries employ less than ten people. Similarly forty nine percent (28) of the sugar and chocolate confectionery, thirty nine percent (7) of the potato chip, pretzel and popcorn, forty percent (10) of the motor vehicle fabrics, fifty three percent (153) of electronic parts and components, forty three percent (43) of other electrical industrial, thirty seven percent (40) of pharmaceutical and medicine, thirty four percent (28) of toilet preparations, sixty six percent (60) of toys and games, forty six percent (13) of brush, broom and mop, and fifty eight percent (37) of the musical instruments establishments employ less than ten people.

Further examination shows that in four of these industries over eighty percent of the establishments have less than fifty employees (electronic parts and components, toys and games, brush broom and mop, and musical instruments); in three more over seventy percent of the establishments have less than fifty (sugar and chocolate confectionery, potato chip, pretzel and popcorn, and other electrical); and in three others over sixty percent of the establishments have less than fifty employees (motor vehicle fabrics, pharmaceutical and medicine, and toilet preparations). Because of the nature and composition of the workforce and the jobs in establishments employing less than fifty people in these industries, there may be few, if any, male

jobs with which females can compare. That is, there are likely to be a few jobs which are broadly defined. An establishment with fifty employees may have as many as ten jobs however, females may be concentrated in jobs at one end of the hierarchy and males at the other. There may be no males throughout the hierarchy with which to compare.

Administration office and non-manufacturing

Females are not represented in administration office and non-manufacturing occupations in nineteen percent (38) of the industries, represent less than twenty percent in seven percent (14) industries, and represent between thirty and forty percent in fifty percent (100) of the industries. In five percent (10) industries females represent fifty percent or more of the administration office and non-manufacturing employees.

Industries where females constitute in excess of fifty percent of the administration office and non-manufacturing employees include: sugar and chocolate confectionery (52%), printing, publishing and allied industries (50%), publishing industries (59%), book publishing (64.6%), other publishing industries (55.7%), other combined publishing and printing (53.1%), electric lamp and shades (55.8%), toilet preparations (55%), jewellery and silverware (59%), broom, brush & mops (52.2%), and the musical instrument and sound recording industry (54.3%). These industries represent 28.6% (22,530 - 19,951 or 89% of which is attributed to the publishing industry) of the total administration office and non-manufacturing

employment in the sector.

Forty nine percent (28) of the establishments in sugar and chocolate confectionery employ less than ten people. Similarly, fifty nine percent (74) of book publishing, sixty four percent (352) of other publishing, fifty four percent (18) of other combined publishing, seventy six (225) percent of jewellery and silverware, forty six percent (13) of the broom, brush and mop, and fifty eight percent (37) of the music instrument establishments employ less than ten people.

Further examination indicates that in five of these industries (book publishing, other publishing, jewellery and silverware, broom, brush and mop, and music instruments) over eighty percent of the establishments employ less than fifty people. In two more (sugar and chocolate confectionery, and other combined publishing) over seventy percent of the establishments employ less than fifty people. As in the production and related jobs, this could have significance for females in terms of having a male job with which to compare.

Combined Production and Administration, Office

Few industries in manufacturing have high concentrations of females in both the production and the administration, office and non-manufacturing occupations. There are four industries who have more than fifty percent female concentration in both. They are sugar and chocolate confectionery, toilet preparations, broom, brush and mop industry, and the musical instrument and sound recording industries. These are industries where (as

discussed previously) a significant number of establishments employ less than ten people. There are 4,675 female production workers and 2,214 female administration and office workers in these industries. This represents 2.8% of the total number of females in each of these categories in the sector.

Concentration by Size of Establishment

Table 4 examines the distribution of female and male employment by size of establishment for production and related employees and for administration office and non-manufacturing employees.

Females represent roughly one in four production and related workers. There are some slight variations in establishments employing between 1 and 999 - female employment remains in the 24-32% range. In establishments of greater than one thousand, however, concentration of female employment at 11.5% is forty-five percent less than the all industry average of 25.4%

For administration office and non-manufacturing employees, the proportion of females is greater in firms employing less than twenty people than all other establishment sizes. The proportion of female employment decreases significantly as firm size increases. One explanation for this is that in small businesses, there is a requirement for a level of office/administrative support and this level is fairly stable. As firms become larger the need for additional office/administrative support is less, relative to other office occupations; and/or that females are not recruited into these 'other occupations'.

Concentration of females in the one thousand plus category shows a similar decline for administration office and non-manufacturing employees as it did in the production and related, although not to the same degree. The previous explanation would also appear relevant here.

Table 4 also indicates that eighty percent of all females in production and related occupations are employed in establishments of greater than fifty. Similarly, eighty nine percent of all females in administration office and non-manufacturing are employed in establishments of greater than fifty (excludes head office, sales offices, etc. for which numbers are not known.

DISTRIBUTION OF FEMALE EMPLOYMENT

An additional dimension of the concentration of female employment by industry and size of establishment comes from an examination of the relative distribution of female employment within the sector. For example, while females constitute twenty four percent of those employed in production and related jobs in establishments of less than five, this represents one percent of the female employment in production and related jobs in the sector. The corresponding percentage for administration office and non-manufacturing employees is .2%.

Eight percent (14,361) of the females in production and related jobs in the manufacturing sector are employed in establishments of less than twenty. Two percent (1,765) of the females in administration office and non-manufacturing employees are employed in establishments of less than twenty.

Sixty five percent (110,427) of the females in production and related jobs in manufacturing are employed in establishments of more than one hundred. Fifty six percent (34,784) of the females in administration office and non-manufacturing employees are employed in establishments of more than one hundred (excludes consideration of head office, sales offices, etc. for which the numbers are not known).

Production and Related

By industry, transportation equipment and electrical and electronic products each account for a little more than thirteen percent of female employment in production and related jobs:

motor vehicle parts and accessories account for twelve percent; food accounts for ten percent; printing publishing and allied, and other manufacturing each account for seven percent. That is, over sixty percent of female employment in production and related jobs in the sector is accounted for in six industries. An additional twenty five percent is accounted for in six additional industries (plastic products, commercial printing, other commercial printing industries, fabricated metal products, other motor vehicle accessories, chemical and chemical products). Over eighty five percent of the female employment in production and related jobs is in twelve industries.

Females represented less than forty percent of the employees in eleven of these twelve industries. In the twelfth, other manufacturing, they represent 41.8%. If females and males are represented in establishments in roughly the same proportions across industries, particularly in industries employing more than fifty, a male comparator job is likely to be available. Proportions may vary somewhat from one establishment to another. However, to the extent that females are concentrated in specific occupations and males are concentrated in others, comparisons may be limited. This is most likely to be the case. (See section on occupations).

Administration Office and Non-Manufacturing Employees

In administration office and non-manufacturing jobs, printing, publishing and allied industries account for fifteen percent; electrical and electronic products account for eleven

percent; chemical and chemical products and food each account for 10%; and, transportation equipment accounts for 9%. That is, five industries account for over fifty percent of the administration office and non-manufacturing employees. An additional twenty seven percent is accounted for in five other industries (publishing; other combined publishing and printing; newspaper, magazine and periodicals; fabricated metal products; other manufacturing industries. Over seventy five percent of the female administration office and non-manufacturing employment is accounted for in ten industries.

Females account for less than forty percent of those employed in six of these industries and fifty percent or less in three of the remaining four. Of the industries indicated, where females comprise over forty percent, all are related to publishing.

Similarly, if females and males are distributed across industries in roughly the same proportions, comparisons will exist. However, it is likely that females are, for the most part, concentrated in clerical and administrative support positions while males are concentrated in the supervisory, administrative and managerial positions. Comparisons may therefore be limited.

If the concentration of female employment in an industry is fifty percent or less, it is likely that there will be male comparator jobs. The only variant on this would be the size of the establishment which could mean that because of the way work

is organized and defined, there may be no comparator jobs, or it may mean that the establishment is segregated by sex. As female concentration increases beyond fifty percent and particularly when it approaches sixty percent or more, the comparator jobs may not exist because females constitute the majority of the workers and when/where males do exist they are in more skilled or senior positions.

For the purposes of this study, therefore industries that show a concentration of greater than sixty percent female have been identified for further examination. Specifically, the biscuit industry (61.5%), motor vehicle fabrics (62.7%), other electrical products industries (61.4%), toilet preparations industries (66%), toys and games (70.1%), broom, brush and mop (62.2%).

OCCUPATIONS AND COMPENSATION PAID

Production and Related Occupations

The occupations in production and related occupations within the manufacturing sector are as diverse and varied as the industries in which they are found. For the purpose of this study average wage rates for the industries identified were not available. As an alternative, collective agreements (see also section on collective bargaining) were examined to identify (a) the types of jobs and (b) the wage rates for these jobs in these industries. In addition, information was gathered on what occupations females are most likely to be found in. It is assumed that firms in similar industries will recruit from the same labour market. Further, the organization of work is likely to be similar. It is the organization of work in general in terms of what do females do in the industries of the manufacturing sector compared to what men do and the corresponding wage rates that are of interest here.

A brief description (from the Canadian Classification of Industries) of products manufactured, the wage rates and the types of occupations in these industries is provided.

Biscuit Industry

The biscuit industry engages in the manufacture of biscuits, packaged cookies, crackers, fruit bars, graham wafers, ice cream cones, sugar wafers, snaps, sandwich biscuits, etc.

There are twenty seven establishments in the biscuit industry, eleven have less than ten employees and eleven have

more than one hundred. There are 1,569 females employed in production and related occupations in the biscuit industry.

At Christie Brown and Company, there are five major classifications of workers with wages ranging from \$12.40 (general labour) to \$13.31 (lead hand) per hour.

The five major classifications include occupations in the baking department (\$12.57, clerk to \$13.31 lead hand); packing and icing (\$12.42, packer to \$13.19 lead hand); warehouse department (\$12.57 clerk to \$13.21 receiver); environmental health and services (\$12.40 general help to \$13.15 lead hand); and shipping department (\$13.09 skylift operator to \$13.21 lead hand).

At Robinson Cone there are fourteen classifications of workers with wages range from \$8.62 (general labour) to \$13.67 (maintenance machinist). In addition, there are packing classifications, depending upon the type of cone being packed, with a base wage rate and incentive. Rates in these classifications range from \$7.40 to \$9.30 (includes incentive).

At Manning Biscuit, there are sixty four employees, forty four of whom are female. The classifications include packers (\$8.96); sealers and machine operators (\$9.17); quality control (\$9.18); cleaners (\$9.72); machine operators (\$9.91); mixers, shippers/receivers (\$10.10); handyman (\$10.33); and electrician/maintenance mechanic (\$11.96).

Females predominate in the packing, operator and general labour occupations within this industry

Sugar and Chocolate Confectionery

Establishments in this industry engage in caramelizing, syrup kneading, extruding, compressing, stamping or otherwise manufacturing starch goods (jelly candies of all kinds); hard sugar candy; cocoa powder, chocolate confectionery and cooking chocolate products unsweetened or sweetened.

There are fifty seven establishments in this industry, twenty eight of which employ less than ten people, and eleven more that employ less than fifty people. There are 1,977 females employed in production and related occupations in the sugar and sugar confectionery industry.

At William Neilson, there are five hundred sixty five employees, three hundred of whom are female. There are five separate groupings of employees - those related to production (6 levels) \$9.12 - \$11.56; cleaning (5 levels) \$10.16 - \$12.39; traffic (4 levels) \$12.77 - \$15.68; maintenance (4 levels) \$11.25 - \$17.59; warehousing (2 levels) \$11.19 - 11.60.

At Leaf Confections there are two hundred thirty employees, fifty seven percent are female. There are five separate groups of workers with wages ranging from \$9.00 (general help) to \$11.36 (machine operators).

Females predominate in the general help, operator and packing occupations in this industry.

Motor Vehicle Fabric Accessories

The motor vehicle fabric accessory industry engage in manufacturing automobile upholstery products and various articles

of trim from fabrics of natural or man-made materials. Products include automobile body and head linings, seat covers and coverings, belt, safety seat, fabric accessories, seat cushions and backs and trimmings.

There are twenty five establishments in this industry, ten have less than ten employees and seven have more than one hundred. Little information could be found about manufacturers in this industry. There are three thousand females in production and related occupations. It is assumed that establishments in this industry may also be associated with textile manufacture.

Other Electrical Products

Other electrical products industries engage in the manufacture of electrical products including fuses (except power fuses). Products include attachment plugs, caps, taps and connectors, carbon electrodes, electric Christmas tree lighting sets, extension cords, fuses and parts, graphite, metal graphite and carbon brush stock and brushes, renewal elements for cartridge fuses, switches, and traffic signal systems.

There are sixty six establishments in this industry, twenty five with less than ten employees and ten with more than one hundred. There are 1,580 females in production and related occupations in this industry.

An examination of the manufacturers in this industry include names like Westinghouse, Federal Pioneer, Canadian General Electric, Siemens, ASEA, Honeywell, i.e. large manufacturers who manufacture electrical products in other industry divisions.

At Holophane Division, Manville, Canada there are eleven classifications of workers with wages rates ranging from \$10.41 (Assembler A) to \$12.25 (mechanical maintenance). Other classifications include Assembler B (\$10.73); product repairman (\$10.78); sheet metal operator (\$10.89); receiver/shipper (\$10.94).

At Appleton Electric, there are nine job grades, with wages ranging from \$11.29 for a light assembler to \$13.01 for a tool and die maker.

Females in this industry are concentrated in the assembler and inspection classifications.

Toilet Preparations

These industries engage in the manufacture of perfumes, cosmetics and other toilet preparations. Products include after shave lotions, anti perspirants, bath oils/salts/bubbles, colognes, cleansing/moisturizing creams, deodorants, fragrances, hair spray/shampoo/rinses/tints/dyes/tonics, mouthwashes, perfumes, suntan preparations, talcum powder, toilet water and makeup.

There are eighty two establishments in this industry, twenty eight have less than ten employees, eleven have more than one hundred. There are 1,807 females employed in production and related occupations in this industry.

At Max Factor there are thirteen classifications with wages range from \$7.10 (line operator) to \$12.73 (maintenance). There is a 15 cent an hour bonus for working with loose powder.

There are seventy six females and fifteen males in the bargaining unit. Females predominate in the line and equipment operator classifications while males predominate in the warehouse, truck driver, mechanic and maintenance occupations.

At Cheeseborough Ponds, females tend to predominate in the line and equipment operator classifications. Entry level wage rate is \$10.00+. The operator jobs here had traditionally always been female, they have been hiring temporaries (including males) to fill a demand for labour. Temporary rates are \$7.80. A skilled maintenance mechanic receives \$16.83. This company has been downsizing since it was bought by Unilever eighteen months ago.

At Schwarzkopt Limited, wages ranging from \$5.00 (general labour) to \$9.27 (factory maintenance). There are twenty four female employees and eleven male employees in this bargaining unit.

At Pharmapak Limited, wages range from \$4.94 for part time and students, \$6.50 for packagers to \$11.96 for maintenance mechanics. There are forty five employees represented here.

Females in this industry are concentrated in the general labour, operator and packager classifications.

Jewellery & Silverware

Establishments in this industry engage in manufacturing articles of precious metals with or without precious stones and imitation precious metals and stones - e.g. costume jewellery, emblems, jewellery, silverware plating, table flatware, trophies.

There are two hundred ninety establishments in this industry, two hundred twenty five of which employ less than ten people and a further forty nine employ between twenty and fifty. Only seven percent of the establishments employ more than fifty people. There are 1,185 females in production and related occupations in this industry.

At Coro Canada Inc. there are two hundred sixty employees, seventy four percent of whom are female. There are three separate groups of workers, one group of manufacturing employees who operate on piece work, one group of factory employees who operate on an hourly rate and one group of warehouse employees. Wages range from \$7.00 for general merchandise preparation (warehouse) to \$10.80 for mould making Grade III (factory hourly) Piece work rates vary from \$7.30 (assembly) to \$8.85 (polishing)

Toys and Games

Toys and games industries engage in the manufacture of toys and games of any material including handicraft and hobby craft kits. There are ninety one establishments in this industry, sixty have less than ten employees and eight have more than one hundred. There are 1,075 females employed in production and related occupations in this industry.

At Kenner Parker there were eight classifications of workers with wages ranging from \$5.73 for light assembly and packing jobs to \$10.93 for a mechanic. (Kenner Parker have moved their manufacturing operations to the U.S.)

In the toys and games industry females work primarily in the

light assembly, packaging and operator jobs.

Brush, Broom and Mop

The brush broom and mop industries engage in the manufacture of brooms, mops, carpet sweepers, paint brushes, paint rollers and parts and whisks. There are twenty eight establishments in this industry, thirteen have less than ten employees and only two with more than one hundred. There are four hundred twenty nine females in production and related occupations in this industry.

At Dustbane there are four separate classifications with wage rates ranging from \$4.90 for general labourers, \$5.05 for quality control, \$5.30 for shipper/receivers and \$6.55 for machine mechanics. There are twenty seven employees.

The preceding examined the occupations and compensation within industries that reflect more than fifty percent concentration of female workers in production and related jobs and provides an indication of the nature of female employment in industries where females dominate within the manufacturing sector. The products manufactured in industries where females dominate tend to be in non durable manufactured goods as opposed to durable goods. The tables indicate that employment in these industries is less overall than in the majority of industries where males dominate.

In addition to females constituting greater than fifty percent of specific industries, there are predominantly female establishments within industries that show less than fifty

percent concentration. For example, in fruit and vegetable canners; bakeries; in the ornamental metal; metal stamping, pressing and coating industries; in the hardware, tool and cutlery manufacture; and plastic fabrication, there are establishments who have a greater concentration of female employment than male.

An examination of the occupations within these establishments indicates that the pattern of employment is similar for establishments that employ predominantly females as it is for industries that employ predominantly female workers.

To illustrate, at Waterloo Metal Stampings, there are 225 employees, one hundred fifty eight of whom are female. There are nineteen labour grades ranging from stockperson (\$9.18) to lead hand -tool and die technician (\$16.94). There are also four additional classifications for which incentives apply - light assembly operators \$7.57, press operators \$8.15, set up and operate \$8.83, and set up operate gas & arc weld \$9.52.

At Alumabrite Anodizing Limited there are fifty employees, thirty four of whom are female. There are nineteen occupational groups ranging from general help light (\$8.27) to Plant and Equipment Maintenance Class A (\$12.41)

In industries and in establishments, females tend to be concentrated in light assembly, general help/labour, operator and packing occupations at the lower end of the occupational hierarchy. This does not suggest that females are not found in occupations further up in the hierarchy, only that their greatest

concentrations are found in light assembly, general help/labour operator and packing occupations, where there are likely to be few, if any, male comparator jobs. Males tend to be concentrated in warehouse, assembly, set up and operate, and skilled labour occupations in female dominant industries much the same as they are in all other industries. To the extent that establishments have occupations that are predominantly in light assembly, etc., they are also likely to have greater concentration of female employment.

An examination of the typical duties in these occupations reveals:

The main duties of packers include packing a variety of parts and products; may prepare, pack and nail down crates and record quantity of articles packed; may apply labels and stencils.

Labourers must have the ability to follow verbal or written instructions; operate as an unskilled worker doing miscellaneous jobs.

Assembler - light works on assembly with small number of details; usually on standardized products and methods; may perform simple fitting and adjusting; bench or conveyor work of a highly repetitive nature.

Inspector - go/no go works on highly repetitive, short cycle inspection operations using reading instruments, gauges, test sets or samples; rejects units which on visual inspection have defects; makes reports on rejects.

Shippers/Receivers check incoming goods against packing slips and/or purchase orders; prepares reports on shortages or damaged goods; arranges for goods to be shipped to customers; prepares bills of lading.

Fork Truck Operators pick up and transport material using a powered fork lift truck; loads and unloads trucks and freight cars; requires knowledge of plant layout and production procedures.

Assemblers work on diversified assembly operations; make fitting and adjustments to meet operating requirements; involves working within varying tolerances and precision fits; works with power tools; ability to read blueprints.

Set up and operate involves setting up required machine; make adjustments to produce sample, makes necessary changes or minor repairs to keep job going. Operates machine to perform normal range of operations; reads and interprets simple drawings and patterns.

Administration Office and Non-Manufacturing Employees

Females are employed in administration office and non manufacturing occupations throughout the manufacturing sector. In most industries females represent approximately thirty percent of those employed in this category. This concentration would suggest that females in these occupations will have male jobs with which to compare. To the extent that females are concentrated in occupations lower in the occupational hierarchy

and males are concentrated in jobs further up in the hierarchy, similar to that reflected in production and related occupations, few comparisons may be possible. If females in administration and office occupations are employed in an industry/establishment that in the production and related occupations is primarily male, there may be comparisons. However, if females in administration and office occupations are employed in an industry or establishment that in production and related occupations is primarily female or the males are in the more skilled classifications, comparisons may be limited.

Table 5 examines wage rates in selected office occupations in Ontario. The information includes the proportion female, the Ontario average wage rate for females and males, as well as the average manufacturing wage for the occupations listed. The proportion of females and the average female and male wage rate for manufacturing alone is not available. To the extent that the manufacturing sector is similar to all industries in Ontario, this information can be used as a proxy for information related to manufacturing alone. From the table, manufacturing pays above the Ontario average in all but two categories. It is assumed that wage differentials between females and males in manufacturing will be approximately the same as the Ontario average.

From the table, the distribution of employees by occupation indicates that there are female dominant occupations, where the concentration of females is over 75% - accounting clerk.

bookkeepers, general office clerks, data entry operators, file clerks, order clerks, secretaries, stenos, telephone operators, typists, and word processing operators.

Male dominant occupations include senior programmers, and systems analysts. Occupations which are classed as neither female nor male include junior programmers, computer operators, cost clerks, and office managers

Not all industries within the sector have the same occupations however most have the above listed occupations in varying numbers. An examination of the essential elements of these jobs which may be considered representative of jobs that females and males predominate revealed :

The main duties of a accounting clerk include maintaining records of financial transactions, either/both accounts payable and receivables; verifying accuracy of documents; making calculations; checking/making/totalling/balancing ledgers; processing transactions according to established procedures.

Bookkeepers maintain records of business transactions; compile and produce reports at prescribed intervals to show receipts, expenditures, accounts receivable/payable.

General office clerks perform a variety of clerical duties within established procedures. Assignments may include checking/verifying/extracting/collating/organizing data from a variety of sources; maintaining records; coordinating/preparing reports.

Data entry clerks operate computer equipment to record or verify data in computer-readable form using magnetic tapes/discs

or punch cards; work requires attention to detail both in the input and the verification stages.

File clerks read, classify, record and file letters and other material; search files to retrieve material; maintain filing system.

Order clerks receive telephone and mail orders from customers; enter orders into system; answers routine telephone and mail enquiries from customers; provides delivery information; coordinate follow up to ensure on-time delivery. Position requires knowledge of company products.

Secretaries take dictation, edit and type letters and reports; schedule appointments/meetings; screen telephone calls; maintain confidential records; prepare reports, initiate and respond to enquiries to assist superior with administrative details.

Word Processing Operators, using computer word processing equipment, type correspondence, reports and other material; maintain files of material on discs or terminal equipment for retrieval and/or revision. Material may include technical or diversified information/records/mass mailings/lists/financial and/or statistical data.

Computer programmers write, test, debug computer programs for a variety of applications; prepares work flow charts/diagrams/program; prepares documentation of procedures for use with completed programs.

Systems analysts analyze systems, procedures, and methods

used in operation; develops new methods/processes to improve production/inventory control procedures; prepares descriptive process flow charts and diagrams; conducts cost analyses; selects equipment; initiates programs to be developed for electronic data processing systems.

HUMAN RESOURCE POLICIES

Human resources policies and practices vary widely within the sector with industry, size of establishment and the nature of the work being significant variables.

Fifty percent of the establishments within the manufacturing sector employ less than ten people, eighty percent employ less than fifty people. These establishments are in the 'small business' category.

In the majority of these establishments, personnel related issues are handled by the owner/operator of the establishment. Job descriptions, if they exist, usually do not provide detailed job content information and, job evaluation procedures are frequently not in place. (See also Small Business Advocacy Report No. 21 Pay Equity and Ontario's Small Business Sector)

Establishments in the small business sector tend to have few jobs, broadly defined. Establishments employing less than fifty may have only five to ten separate job titles. Few establishments in the 'small business' category will have more than fifteen job titles. The small number of job titles overall is likely to be significant in terms of the number of comparisons possible. If, for example, there are few jobs broadly defined, they may be less clearly identified as "male" or "female" than where the division of labour allows jobs to be more narrowly defined.

Establishments in the less than fifty category in general

pay 'what they have to'. They pay the 'going rate' for people in similar occupations in similar industries. The more skilled the work, the more difficult it is to attract and retain workers.

Small establishments are more likely to pay wage rates close to the union and/or larger establishment standard for these workers in order to attract and retain and to avoid the possibility of a union. The number of skilled workers within these establishments, is likely to be very small. As the proportion of skilled workers becomes larger, the wages tend to resemble those paid in larger establishments.

Wage rates for low skilled occupations, where replacement workers are seen to be easily obtained and trained are likely to be less and tend to be strongly influenced by minimum wage.

In establishments employing more than fifty but less than two hundred, personnel related issues tend to be assigned to a specific area or function to be handled along with regular duties. For example, there may be a financial manager also responsible for human resources management.

Occupations in these size firms are more differentiated and compensation practices are more formalized than in smaller firms. Job descriptions are also somewhat more detailed than in smaller firms. As establishments become larger, they are more likely to employ an individual specifically for human resource related issues.

There is not a significant degree of mobility in the production and related occupations of the manufacturing sector.

People tend to work for a company for a number of years. To the extent that there is mobility it exists primarily within industries or industry divisions as opposed to across industries.

Mobility is more likely to occur in the office and administration occupations and can be within industries, across industry divisions and out of the manufacturing sector. Mobility in these occupations is however not significantly larger than for production occupations. Variations occur between establishments but for the most part the pattern across industries is similar.

Most establishments employing more than one hundred people have sufficient differentiation between jobs that there is some level of career path/progressions such that an employee might enter the firm in a junior capacity and over a period of time move to intermediate and senior level position within the occupation. This applies to both office, administration type occupations as well as to production related occupations. Lower level positions serve as 'apprentice' roles for the more senior roles.

Not all jobs however have a progression path. In some particularly at the lowest end of the hierarchy - in light assembly/operator positions - there is no more senior position within the skill level to progress to. Similarly, in office occupations, there are some junior clerical positions that do not provide career progression or the progression is limited. Females are more likely to be employed in these occupations. These occupations are more likely to experience higher levels of

turnover than occupations where there is more opportunity for advancement.

Recruitment practices in the manufacturing sector depend upon the skills required, how many workers are needed and the size of the firm.

Small firms are more likely to recruit by word of mouth than larger firms. The expense of advertising is not seen as providing a good return for small business. They prefer to recruit people who are known to people who already work for the establishment. Present employees are more likely to recommend people who will 'fit' the work environment. There is a sense of fraternity and responsibility to recommend people that will do a good job and once hired, there is a strong sense of 'not rocking the boat'. This approach to recruitment is considered by small business to provide the most satisfactory results.

In larger establishments, lower skilled workers are frequently recruited by word of mouth, a sign in the window or through the Canada Employment Centre. Semi skilled workers may be recruited through the Canada Employment Centre, an advertisement in the local newspaper or through educational institutions. Skilled workers are likely to be advertised for locally and sometimes nationally and, more recently, internationally.

Recruitment practices are similar for production and office occupations with the size of establishment being a key variable.

Wages and benefits packages for workers in the manufacturing sector vary widely depending on the industry, whether or not there is a union, the size of establishment, and the level of competition.

Benefits packages for small firms tend to be as competitive as for larger establishments in the same industry. In fact, in some instances where small business cannot pay higher salaries, they have an enriched benefits package.

Benefits packages for part time workers depend on whether there is collective bargaining, whether part time workers are covered by the collective agreement, the size of the establishment and the industry in which it operates.

Some part time workers have only the benefits required by law, some get a percentage of salary in lieu of benefits and others are eligible for the same benefits, on a prorated basis, as the full time personnel.

EMPLOYEE/EMPLOYMENT CHARACTERISTICS

Educational Requirements

Educational requirements vary significantly by occupation. In some occupations, the ability to read and write is not a necessary condition of employment; in others, advanced training in terms of formal education or apprenticeship programs are required.

In some production related occupations, there is no formal educational requirements. The ability to read and write is not necessarily a condition of employment. The requirement is to be able to receive and follow instructions.

In other unskilled - assembly, inspection occupations that require go/no go decisions, operators and general help occupations - incumbents must be able to communicate either in writing or in speech. Usually some high school is required for these occupations.

In semi skilled occupations - set up and operate, assemblers - some specialized training or trades course is required.

In the more skilled occupations frequently apprenticeship or other specialized training is required.

In administration, office and non manufacturing occupations, the educational requirements change significantly with the occupational grouping. For example, those involved in managerial and professional occupations may need an undergraduate or perhaps a graduate degree in a specialized field. Managerial and administrative personnel may require an undergraduate degree or

perhaps community college and perhaps additional training. Those involved in clerical occupations require some specialized training in accounting/keyboarding/computer skills/general office skills. This type of training may be obtained through specialized training during and/or after high school or may require community college training. Sales occupations may require community college or specialized training. Some occupations may not require accreditation beyond high school - for example, cashiers, order desk, mail clerk, inventory clerk, warehousepeople, fork truck drivers.

Table 6 provides a breakdown of managerial/professional; managerial/administrative; natural science; clerical and sales personnel in ten major industry groups. Managerial/professional personnel constitute forty percent of all personnel in these categories, managerial/administrative personnel constitutes an additional twenty four percent. In general, there is significant and varying levels of educational requirements within the majority of administrative and office occupations.

In general, females are concentrated in the clerical occupations and males are concentrated in the managerial/professional and administration occupations. To the extent that male comparators exist, they are more likely exist within each occupational group than across groups - i.e. a female in the clerical group is more likely to find a comparator within the clerical group than in the managerial/admin or the managerial/professional groups. Females however represent the

majority of those employed in clerical occupations therefore comparisons for the most part may be limited.

Part Time Work

Only 3.0% of the total employment in manufacturing is part time. Females are more likely to work part time overall. Table 7 illustrates the part time/full time employment status by age and sex. In the 15 - 19 age group, twenty seven percent of those employed are employed part time. In this age group, however males are more likely to work part time. In the 25 - 34 and the 35 - 44 age groups, females are more likely than males to work part time.

Part time work for females does not constitute a large proportion of female employment overall (5.9%) however females are more likely to work part time than males. Females constitute fifty eight percent of all part time work in manufacturing and eighty percent in the 25 - 34 and 35 - 44 age groups.

According to the Canadian Federation of Independent Business part time work is more likely in the first year of operation of a small business. In general, this is attributed to the inability to afford full time workers and the scarcity of business resources.

Most industries, that employ part time workers, provide part time work either regularly throughout the year or only during peak times. In the toys and games industry, some establishments employ their regular contingent of workers for less than the full year. This industry for the most part gears up for its largest

season - Christmas - and lays a portion of the workforce off after they have met their production needs for this season. The period April to December is the peak period when they are producing toys and games for the Christmas season. Once the Christmas production is complete they turn their attention to toys and games that are related to summer activities. The demand for these products is less overall therefore they need less workers employed and some of those recruited for the peak season are laid off. This group of workers is predominantly female and predominantly from ethnic community.

Detailed information on the industry breakdown and the proportion of part time work in production versus office occupations is not provided. From the information gathered, it would appear that the majority of part time work in the sector relates to production and related occupations rather than to office and administrative occupations.

Collective agreements covering part time workers is one source of information on the workers covered, and the wages and benefits received in part time employment.

Collective Bargaining

The manufacturing sector has a relatively high degree of unionization overall. Virtually all industrial unions have some level of representation within the manufacturing sector. The Canadian Automobile Workers and the United Steelworkers appear to represent a large proportion of represented workers in manufacturing. Other unions tend to represent specific

industries and do not appear to have the same level of broad base representation.

Table 8 indicates the number of collective agreements within manufacturing (excluding textiles) in terms of full-time, part time and seasonal coverage. Three quarters (2,271) of the collective agreements in manufacturing do not specifically exclude part time workers. To the extent that these establishments have part time workers, they are covered by the collective agreement for full time workers.

The contract language in an additional two percent (66) of the collective agreements specifically cover part time and full time employees.

Part time workers fall under the definition of 'employee' in the scope clause of a collective agreement the same as full time workers. Therefore, only when the collective agreement specifically excludes part time and/or seasonal workers are they not covered. Twenty one percent (635) of the collective agreements specifically exclude part time workers. These exclusions occur in all major industry divisions.

In four industry divisions there are collective agreements specifically covering part time workers. In particular, the food and beverage industry and the printing and publishing industry have agreements for part time workers only.

Table 9 provides information on the number of collective agreements, which specifically exclude part time workers and collective agreements covering part time workers only, by

industry division as well as the number of employees covered.

Information on the female/male breakdown is also provided where available. The number of collective agreements in any industry division varies from 141 in food and beverages to three in petroleum and coal.

Twenty one percent of full time workers covered by collective bargaining in the manufacturing sector are employed in the food and beverage industry division. In specific industries within food and beverage, there are five collective agreements in poultry processing where females constitute sixty nine percent of the workers represented. Similarly in fruit and vegetable canners, there are nine collective agreements and females constitute forty four percent of the workers represented. In biscuit manufacturers, there are five collective agreements and females constitute fifty three percent of the workers represented.

This pattern of unionization appears in other industries where females predominate, i.e., in electrical products, pharmaceuticals, toilet preparations, jewellery and silverware, sporting goods and toys. The predominance of females in an industry is therefore is not indicative of a non union status.

The information on female and male distribution indicates that roughly forty seven percent of those covered by collective agreements, specifically excluding part time workers, are female. This appears to overstate the degree of unionization for females in manufacturing overall. It does not include industries where

the female/male information is not available and, it does not provide information on the 2,271 collective agreements where part time and seasonal workers are not specifically excluded. This may indicate that to the extent that females are more likely to work part time (see section on part time employment), they are not covered by the same collective agreement as full time workers, if they are covered at all. They may be covered by a separate agreement covering part time workers only. This differential coverage for part time workers is significant in wage and benefits determination.

Under section 8(4) of the Pay Equity Act, adjustments will be required for part time workers who are performing work, on a regular and recurring basis, similar to that performed by full time workers. Contract language in collective agreements specifically excluding part time workers (as defined by the Act), particularly as it relates to wages and benefits, is, for the most part, no longer allowed. Unions, negotiating a pay equity plan will be representing the interests of the part time workers as well as the full time workers. The differentiation between part time and full time contract language and exclusion from specific bargaining units may therefore disappear.

In establishments, where male comparator jobs exist, female part time workers will receive adjustments similar to their full time counterparts, albeit prorated. However, in establishments where no male comparator job exists, particularly likely in industries where females constitute greater than sixty percent of

those employed, comparisons for full time females may be limited. Comparisons for part time female will be limited as well. Differentiations in wage rates between part time and full time workers may therefore be more likely in industries that employ predominantly females than in industries where there is a male comparator. Alternatively there may be differentiation in wage rates among part time workers within an establishment where a male comparator job exists for some and not others.

Collective bargaining exists, for the most part, in firms of more than fifty employees. Females predominate in industries where approximately fifty percent of the establishments employ less than fifty people, a large proportion of which employ less than twenty. The proportion of smaller size establishments and the low level of unionization in establishments of this size overall, and the degree of female concentration within these industries is therefore significant in terms of an predominantly female establishment study. If females are represented in the larger size firms where collective bargaining exists, pay equity plans and subsequent wage adjustments will be negotiated. To the extent that females are represented in smaller firms where there is neither requirement to negotiate nor post a pay equity plan, adjustments may not occur. In smaller size firms however, because of the way work is organized, i.e. few broadly defined jobs, wage differentials may not exist, or may not exist to the same degree as would appear in larger organizations where work is more finitely defined.

Cultural Characteristics

Table 10 identifies cultural characteristics in the manufacturing sector as of 1981. While the pattern of immigration appears to have changed significantly since 1981, the information is useful in illustrating historical patterns. Females in manufacturing are slightly less likely to have been born in Canada than males. Females are significantly more likely to have been born in southern Europe than males. Overall, female immigrants constitute twenty percent of the total female labour force in manufacturing.

Two thirds of the females and three quarters of the males employed in manufacturing have either Canada or other english speaking countries as their place of birth.

An analysis of the cultural characteristics of the manufacturing sector that distinguish between immigrants who speak english and those who do not might provide useful information. Immigrants who speak english appear to be less identifiable from other female workers than those who do not. Those who do not appear to be more segregated into few industries and few occupations while those that do appear more likely to reflect the distribution of female employment overall. Immigrant females who do not speak english are more likely to be employed in highly routinized occupations where there is little or no need to communicate in english. In the toys and games industry, the majority of workers are female and immigrant. Jobs are demonstrated to them, there may be few with a limited command of

the language to be able to convey instructions to others. To the extent that this group of workers cannot communicate in english, their potential to move into other occupations is limited. The occupations provide limited access to higher level positions in terms of the skills/training required.

Immigrant females are also likely to be employed in a non union work environment. Personnel practices in these environments are strongly influenced by supervisors and may vary significantly within the establishment. Wages for immigrant females, particularly those where collective bargaining does not exist, tend to be strongly influenced by the minimum wage.

Immigrants who start their own business tend to employ immigrants of the same nationality which is facilitated by the word of mouth recruitment practices and by similar language. Females employed in these establishments are employed in similar occupations/establishments as in the industry in general. A further breakdown of employment by industry division of the immigrant population would assist in determining if females of particular ethnic origins are concentrated in any particular industry or any particular size of establishment and, if, by virtue of their cultural background, are concentrated in particular types of occupations.

Interviews with members of ethnic women's groups provide little insight into pay equity concerns. Of more concern is the distribution of females by occupation and with particular personnel practices. Part of the problem is that females in this

group do not understand the legislation, the language, what it means in general and what it means to them in particular.

HISTORICAL DEVELOPMENT/CURRENT CHALLENGES/FUTURE DIRECTIONS

a) Historical Development

Since 1961 there has been a 25.4% increase in the number of establishments within the manufacturing sector. This increase in the number of firms has generated a 54% increase in the number of production and related workers and a 42.7% increase in the number of employees overall and a 8.6 fold increase in salaries and wages (See Table 11).

An examination of the historical distribution of production and related workers indicates that the proportion of females in the sector has increased from 22.5% in 1971 to 25.4% in 1985. Similar increases are reflected in all industry divisions except tobacco products, paper and allied products, and rubber and plastic products where concentration declined. In printing, publishing and allied industries, and transportation equipment, female participation increased more significantly than the all industry average.

In some industries while the overall proportion of females is low, their increased participation during the period is significant. For example, petroleum and coal products, primary metals, and non metallic mineral industries.

There was an overall increase of 42,863 females employed in production and related occupations between 1971 and 1985.

In 1971 females constituted 23.2% of the administration, office and non-manufacturing employment. By 1985 they constituted 32.2% of these occupations. There were 14,886 more

females employed in this category in 1985 than in 1971. There were 44,474 less males employed in this category during the same period. Females increased their concentration in all industry divisions. In machinery, metal fabricating, wood, and rubber and plastics, actual employment numbers decreased but overall concentration of females increased. Between 1980 and 1985, concentration increased but overall female employment decreased in most industry divisions and in the sector overall. The increased concentration in female employment is largely the result of the relative and absolute decline in male employment during the period which is attributed to the lasting effects of the recession.

b) Current challenges

Current challenges in the manufacturing sector are a function of the industry, the size of establishment, technology employed, level of competition, value of the Canadian dollar, labour market shortages, interest rates, free trade, international trade. In short, there are a number of interrelated factors that have significant impact on the sector overall. Because these factors and others are so inextricably linked it is difficult to assess the impact of one in isolation.

The structural shift in the economy away from production related jobs toward service oriented jobs will impact each separate industry division but in different ways and with different timing.

The most vulnerable establishments in most industries will be in the small business category who are less diversified and have less capital overall to withstand competitive pressures and any significant changes in customer preferences.

Industries manufacturing non durable goods who tend to employ fewer people overall, may be more susceptible to shifts in customer preferences and to competitive pressures, both local and international, than those in durable goods manufacture. Females tend to be concentrated in the manufacture of non durable goods.

One of the most significant challenges both now and in the future is the impact of trade overall and the impact free trade has on individual industries.

Imports and Exports

Tables 12 - 17 provide information on Ontario imports and exports for the period 1981 to 1987. Imports for the period have increased 64% from \$38 billion to \$62.5 billion (1981 constant dollars); imports from the U.S. increased 56% from \$32 billion to \$50 billion; while imports from all other countries increased 108% from \$6 billion to \$12.5 billion. In industries previously identified as being female dominant percentage increases in imports are significantly higher from all other countries than they are from the U.S. While actual dollar increases in imports from the U.S. are higher, the rate of increase of imports from all other countries is significantly higher. In motor vehicle fabrics the increase in imports overall was eighty seven percent, but the increase from all other countries except the U.S. was

five hundred and eleven percent (\$1.3 million to \$7.9 million). Similarly in toilet preparations, the overall increase was eighty six percent but from all other countries except the U.S. it was three hundred forty seven percent (\$7.6 million to \$33.8 million). In toys and games, the increase was forty eight percent overall, eleven percent from the U.S. but eighty three percent from all other countries (\$94.7 million to \$173.5 million).

Exports for the period increased fifty nine percent overall from \$31.5 billion to \$50 billion (constant 1981 dollars). Exports to the U.S. increased seventy seven percent from \$25 billion to \$44 billion; exports to all other countries except the U.S. decreased thirteen percent from \$6 billion to \$5.6 billion. In 1987 our exports to all other countries for sugar and chocolate confectionery, other publishing, and toys and games was less than it was in 1981. Exports to the U.S. increased significantly in the biscuit (+190%); sugar, chocolate confectionery (+387%); and toilet preparations (+217%).

From this it would appear that in the industries identified, the rate of increase from all other countries is significant and has implications for employment in general and female employment in particular. To the extent that we are importing more from both the U.S. and other countries, we are not manufacturing those goods here. The rate of increase indicates that while we are importing goods, we are exporting jobs to other countries and increasingly to countries other than the U.S.

Conversely, for goods we manufacture in Ontario, we are not

increasing our exports to countries other than the U.S. In the industries identified there would be little or no job creation as a result of exports to other countries. Exports to the U.S. however are increased in a number of categories notably in biscuits, sugar and chocolate confectionery, and toilet preparations. That we are exporting less to countries other than the U.S. and significantly more to the U.S. than we were in 1981 indicates that the major market for our manufactured goods in general and those identified in particular is the U.S. market.

One significant variable affecting the amount of exports overall is the value of the Canadian dollar. In the period 1981 to 1987 the value of the Canadian dollar relative to other currencies, particularly to U.S. currency, has been significantly lower. Recently the Canadian currency has been increasing in value relative to other currencies which makes our manufactured goods more expensive to other countries, particularly to our major trading partner. The relative increase in the cost of our goods may make it more economical for US companies to produce. This may also be significant from the point of view of the free trade agreement. If, for example, these industries are particularly vulnerable under a free trade agreement, it is conceivable the goods cease to be manufactured in Ontario. In this case, there is likely to be significant implications for female employment in specific occupations and industries

Free trade will have differing impacts on the manufacturing sector by industry. For some industries, namely in the

communications and high tech area free trade is anticipated. The increased limit on foreign investment however might suggest that there is no restriction on U.S. firms buying our high tech firms, specifically the technology and research and development and then moving these operations to the U.S. This could have significant implications particularly for the small high tech establishments.

In industries like the toy industry, the record industry, publishing, the impacts are expected to be significant and, in some cases, have already been felt.

In toys and games, the U.S. industry is operating at about 70% capacity. Kenner Parker determined it was more efficient to fill the U.S. plants to capacity and pay the additional transportation costs to have the goods shipped here than to maintain both Ontario and U.S. operations. They maintain a marketing and distribution office here but the goods are no longer manufactured here. It is anticipated that there will be further moves similar to this one in this industry. While some jobs remain, they do not employ the same numbers of people or the same skill level of people as the manufacturing operation did. The exit of the toys and games industry will have negative consequences for immigrant women.

The musical instrument and sound recording industry will lose existing tariff protections. Anticipated results are not favourable for the Ontario musical instrument and sound recording industry.

In publishing the current requirement for a magazine or

newspaper to be typeset and printed in Canada in order for advertisers to qualify for tax deductions is eliminated. This is expected to produce negative results for the Ontario publishing industry. and consequently for female employment in this industry.

In toilet preparations mixed results are expected. In some areas manufacture here is more efficient and therefore likely to take precedence. in other areas the U.S. operations are more efficient. In yet other areas there are differing health requirements. For example, the Food and Drug Administration in the U.S. has identified contents in toothpaste manufactured here as having carcinogens. The Department of Health and Welfare, other hand have identified contents in their toothpaste as having carcinogens. Whether the requirements for these and other products will be 'harmonized' over time is not known. There is currently no requirement to harmonize health and safety standards. However, should this change, there may be further implications for female employment in this industry.

Small business overall tends to view free trade in a positive vein. Opportunities to produce for a larger market across the board are enticing. An analysis of how the free trade agreement might translate into small business opportunities is, for the most part, speculation. However, if the free trade agreement translates into small business opportunities, it may also translate into employment opportunities for females.

For larger companies, particularly those in non durable

goods, there is likely to be significant adjustment required. To the extent that US establishments are operating at approximately 70% capacity and the Ontario/Canadian production is no more than thirty percent, and there are no licensing procedures, consumer protection laws or commercial regulations that make producing in the U.S. less than attractive, it is clearly possible that the free trade agreement may produce employment dislocation.

An additional consideration of a free trade agreement is that Canada has no special status and therefore is not exempt from U.S. trade laws. The U.S. has an export restriction on shipments to 'unfriendly nations'. Any exports from Canada to a nation considered 'unfriendly' by the U.S. would break U.S. trade laws. High tech products and specifically products currently used by the U.S. in their defense industry are also not be allowed to be exported to other countries. This may have some consequences for employment in general and female employment in these industries.

In general, to the extent that the U.S. is our major export market and that, under this free trade agreement, some of these export arrangements will be reexamined and altered, there is likely to be dislocation. Industries in manufacturing non durable goods are initially seen to be most vulnerable to changes.

An additional challenge being presented to manufacturing industries is the current and growing labour shortage. While this labour shortage is more significantly felt in skilled

occupations, there are increasing difficulties in recruiting workers at all levels simply because the entrant pool is small. This growing labour shortage is expected to have significant implications for manufacturing in general.

APPENDIX 1 - ISSUES AND OPTIONS

This section addresses issues and options for predominantly female establishments within the manufacturing sector.

The manufacturing sector is large and diverse. Eighty percent of the establishments employ less than fifty people which represents twenty percent of the females employed in production and related occupations and eight percent of the females in administration, office and non-manufacturing employees. Eighty percent of females in production and related occupations and ninety two percent of those in administration, office and non-manufacturing employees are employed in establishments of over fifty. There is a significant degree of collective bargaining throughout industries in the sector in firms of over fifty.

There appears to be significant differences between industries and occupations where females dominate, those that men dominate and those where there are roughly the same proportion of males and females. Differences exist as to the size of the industry overall, the proportion of firms employing less than fifty people, the goods they manufacture, and the occupations and skills employed. Females are more concentrated in industries/establishments where the work is to a large degree routinized, where occupations are classed as "unskilled", and where there is little if any opportunity for upward movement within the occupation or establishment.

In terms of achieving pay equity in this sector, it would

appear that a large proportion of the establishments will have sufficient females and males to make comparisons. In establishments employing less than fifty, and particularly in female dominant establishments/industries those comparisons are likely to be limited. It would appear however that there are males in all establishments/industries and further that there are sufficient males, particularly in the middle and higher level jobs to be able to draw a wage line. If there are sufficient males to produce a reliable wage line, extending the wage line down for lower level jobs provides a proxy for what might be paid to males in these occupations and should therefore be the wages paid to females.

It would seem likely that the wage line approach is how firms in general will respond in order to retain internal equity. To the extent that smaller establishments do not have to negotiate a pay equity plan and that there is no requirement to post a plan, the probability of using a wage line approach is significantly less. In establishments where there is no requirement to post a plan, there will be little incentive to do so and strong sanctions against anyone who files a complaint. (See section on recruitment practices). Some establishments in this category may, in the short run, choose not to comply with the legislation. In the longer term, because of the current and growing labour shortages and because the market wage for females should rise as a result of pay equity adjustments overall, these establishments are likely to incorporate pay equity adjustments

into their wage rates.

It is unlikely that establishments of over fifty would respond by having no females or no males except in the case where either constitutes a small proportion of the workforce - more likely in firms employing less than fifty.

Paying for points is likely to produce similar results as the wage line approach.

A broader definition of establishment might provide some results in particular industries, for example, in the electrical products if the broader definition included comparisons within the larger establishment - for example, Westinghouse, General Electric. This is not seen as a likely possibility. The extent to which comparisons within the broader establishment would yield benefits to females by providing a male comparator, is limited. Evidence would suggest that the nature of work in the different establishments would provide few comparisons overall.

Alternatively, a 'phantom male' approach could be used. That is, evaluate a series of male jobs from the market (within the same geographic area, the same industry division, and the same size) with the establishment job evaluation system and compare the results with female jobs within the establishment. To the extent that the market rate for male jobs have equal or lower points but higher salaries, adjustments could be made. This approach however does not take into consideration factors in the market wage for males other than the female/male differential. In addition, it assumes a level of sophistication

in human resource policies and practices that may not exist in a large number of establishments.

Within the manufacturing sector, the majority of workers both in the production and related occupations and in office, administration and non-manufacturing related occupations are employed in firms of over fifty people, i.e. in medium and large size companies. In addition, because of the level of collective bargaining within the sector, pay equity plans will be negotiated. It would appear therefore that to the extent that there are wage differentials, the process of correcting these within the larger establishments, and particularly those with collective bargaining, will have significant impact on the market wage overall. This does not mean to suggest that wage differentials will disappear in the short term however, to the extent that the wage rate in the market more closely resembles the relative value of the occupations performed, establishments, in order to recruit from the market, will pay 'the market wage'. Those establishments that pay at or near the minimum wage, will experience greater difficulty attracting and retaining workers.

The problem with attempting to decide what further system intervention may be required, rests with how pay equity in general will interact with things like, free trade, the value of the dollar, labour shortages, the structural shift in the economy. The legislative approach to achieving pay equity is slowly by phasing in the legislation and adjustments. It is likely that these types of adjustments will be made throughout

the labour market because it becomes a necessary response to attracting and retaining sufficient employees to carry on business.

APPENDIX B - ATTITUDES TOWARDS SECTION 33(2) (e)

Among immigrant organizations, there was not a great deal of understanding about pay equity in general. The requirements to study all female establishments was less concern to them than the position of females within establishments, that is, immigrant females tend to be concentrated in the lowest occupational levels with little or no opportunity to move up to higher level positions.

Immigrant women's groups also indicated that the legislation in general is complex and, for the most part, immigrant women do not understand it. There was a suggestion that the legislation should be translated into a number of languages in a readable format for immigrant women to be able to comprehend what it means in general, and what it means to them in particular.

As a result of the complex nature of the legislation and, to some extent, limited english comprehension, immigrant women do not expect to realize any benefit from the legislation overall. This is largely the result of where they are employed (small, non union establishments) and particularly because there is no requirement for employers in smaller establishments to be proactive. There was a strong sense that if someone complained to the Commission that there would be significant consequences not only for themselves but also for their 'sponsor.' (This does not mean to suggest that all immigrant females have problems with english comprehension, but where there is limited use of english to communicate, problems of comprehension become more likely)

The requirements of Section 33(2) (e) are no more real for them than the requirements in the legislation overall.

Employers associations concerns, particularly in small business, lie in the area of enforcement. There is a strong perception that they will be presumed guilty and that they will have to 'prove' to an outside agency that they are not. Small business in general have concerns about the method of enforcement and with the purpose of the Commission in general. There is some concern that it will have its own agenda for survival and may therefore be uncompromising in its mandate.

Pay equity in general, according to small employers, does not take into consideration accommodations and trade offs made within the employment relationship - for example, time off for personal/family responsibilities.

Organized labour groups in general have few comments about section 33(2) (e) primarily because their concern rests with establishments who have collective bargaining where there is a requirement to negotiate a plan. In these establishments there are likely to be both females and males. There is little membership in establishments that would fall under section 33 (2) (e) of the legislation and therefore, for the most part, at the time of this report, had not given much consideration to the situation of no comparator in an all female establishments.

Table 1
DISTRIBUTION OF MANUFACTURING INDUSTRIES
BY INDUSTRY DIVISION AND SIZE OF ESTABLISHMENT
ONTARIO, 1987

Industry Division	Size of Establishment					Total
	1-4	5-9	10-99	100-499	500+	
Food Industries	295	226	624	151	19	1 315
Beverage Industries	11	20	60	16	8	115
Tobacco Industries	-	2	5	2	2	11
Rubber Products	20	14	54	10	9	107
Plastic Products	167	145	402	77	1	792
Wood Industries	477	242	520	55	3	1 297
Furniture and Fixtures	414	184	476	58	4	1 136
Paper and Allied	45	32	205	69	13	364
Printing Publ. & Allied	1 550	779	1 041	101	20	3 491
Primary Metal	37	43	121	66	13	280
Metal Fabrication	1 168	775	1 822	166	9	3 940
Machinery	329	242	598	87	12	1 268
Transportation Equip.	237	159	387	163	47	993
Electrical Products	310	199	493	140	34	1 176
Non-Metallic Mineral Prod.	193	129	302	53	10	687
Petroleum & Coal	9	19	20	4	2	54
Chemical & Chem. Products	178	138	389	98	14	817
Misc. Manufacturing	868	471	719	81	8	2 147
Total All Industry Div.	6 308	3 819	8 238	1 397	228	19 990

Source: Statistics Canada, Business Register, Table 07, Cycle 195, Province by Employment Size and sic 80-Active Statistical Establishments 1987 and special calculations.



Table 2

DISTRIBUTION OF MANUFACTURING INDUSTRIES
BY SIZE OF ESTABLISHMENTS
ONTARIO, 1987

sic 1	INDUSTRY DESCRIPTION	None	1-4	5-9	10-19	20-49	50-99	100-199	200-499	500-999	1000-5000+	unknown	Total
1011	MEAT AND MEAT PRODUCTS (EX. POULTRY)	4	101	44	37	48	19	13	4	1	1	18	290
1020	FISH PRODUCTS INDUSTRY	1	2	3	7	4	8	6	8	1		5	45
1021	FISH PRODUCTS INDUSTRY	1	3	4	4	8	5	1				1	27
1031	CANNED/PRESERVED FRUIT & VEGETABLES	5	7	11	18	19	12	9	4	2	1	12	100
1032	FROZEN FRUIT AND VEGETABLES			1	1	3	1	3	2	1		5	17
1041	FLUID MILK INDUSTRY		8	5	6	13	7	3	2			8	53
1049	OTHER DAIRY PRODUCTS		13	13	25	28	13	7				5	104
1051	CEREAL GRAIN FLOUR INDUSTRY		4	3	1	8	2	3	2				23
1052	PREPARED FLOUR & CEREAL FOODS		1		1	2	1	3	3	1		2	14
1053	FEED INDUSTRY	4	58	54	38	37	6	7	1			21	226
1061	VEGETABLE OIL MILLS (EX. CORN OIL)		1					3					4
1071	BISCUIT INDUSTRIES		4	7		4	1	2	5	2		2	27
1072	BREAD AND OTHER BAKERY PRODUCTS	2	43	29	42	57	15	13	8		1	11	221
1081	CANE AND BEET SUGAR INDUSTRY							1				3	4
1082	CHEWING GUM INDUSTRY	1	1					1	3		1		7
1083	SUGAR AND CHOCOLATE CONFECTIONERY		12	16	8	5	4	3	2	1	2	4	57
1091	TEA AND COFFEE INDUSTRY		1	2	3	5	1	1	2	1		4	20
1092	DRY PASTA PRODUCTS INDUSTRY	1	4	6	5	1	1		1			3	22
1093	POTATO CHIP, PRETZEL AND POPCORN	1	3	3		6	1				1	3	18
1094	MALT AND MALT FLOUR INDUSTRY						1	1				1	3
1099	OTHER FOOD PRODUCTS N.E.C.	8	29	25	22	37	14	14	10	2		30	191
1111	SOFT DRINK INDUSTRY	4	7	14	10	17	10	6	1	1		10	80
1121	DISTILLERY PRODUCTS INDUSTRY			1	1	2	4		5		1	1	15
1131	BREWERY PRODUCTS INDUSTRY			5	4	1	1	2	2	4	2	5	26
1141	WINE INDUSTRY	2	4		1	7	2					5	21
1211	LEAF TOBACCO INDUSTRY				1	3		1				1	6
1221	TOBACCO PRODUCTS INDUSTRY			2		1			1	2		1	7
1511	TIRE AND TUBE INDUSTRY		2	1	2	2		2	1	1	3	2	16
1521	RUBBER HOSE AND BELTING INDUSTRY	1	1	3	3	4		3	1	1		2	19
1599	OTHER RUBBER PRODUCTS INDUSTRIES	4	17	10	15	14	14	2	1	3	1	7	88
1611	FOAMED AND EXPANDED PLASTIC PRODUCTS	1	13	15	15	19	2	5				7	77

Table 2 DISTRIBUTION OF MANUFACTURING INDUSTRIES BY SIZE OF ESTABLISHMENTS ONTARIO, 1987

slc 1	INDUSTRY DESCRIPTION	None	1-4	5-9	10-19	20-49	50-99	100-199	200-499	500-999	1000-5000+	unknown	Total
1621	PLASTIC PIPE AND PIPE FITTINGS		2	6	7	13	3	4	1	1		9	46
1631	PLASTIC FILM AND SHEETING IND.		6	4	4	12	4	4	6			6	46
1691	PLASTIC BAG INDUSTRY	3	8	10	10	20	10	5	5				71
1699	OTHER PLASTIC PRODUCTS	28	138	110	112	126	45	36	11			20	626
1700 to 2499 to be dealt with in a separate report													
2511	SHINGLE AND SHAKE INDUSTRY	1	2	1									4
2512	SAWMILL AND PLANING MILL PRODUCTS	17	95	49	32	52	16	11	7			19	298
2521	HARDWOOD VENEER AND PLYWOOD INDUSTRY			2	6	5	1		4	1		2	23
2522	SOFTWOOD VENEER AND PLYWOOD INDUSTRY					1							1
2541	PREFABRICATED WOODEN BUILDINGS	1	13	7	9	8	1	2	1			3	45
2542	WOODEN KITCH. CABINET & BATHRM VAN.	13	133	73	49	43	8	5		1		7	332
2543	WOODEN DOOR AND WINDOW INDUSTRY	3	32	18	27	24	9	8	4			8	134
2549	OTHER MILLWORK INDUSTRIES	5	37	27	28	45	12	6				4	164
2561	WOODEN BOX & PALLET INDUSTRY	4	30	19	38	35	8	2				1	137
2581	COFFIN AND CASKET INDUSTRY		1		2		1						4
2591	WOOD PRESERVATION IND.	2	1	6	2	5	2					2	20
2592	PARTICLE BOARD INDUSTRY		1	2	2	4		2				3	14
2593	WAFFER BOARD INDUSTRY			1				2				1	4
2599	OTHER WOOD INDUSTRIES	12	132	37	26	14	5	1				11	238
2611	WOODEN HOUSEHOLD FURNITURE	34	231	84	58	53	15	7	3			22	509
2612	UPHOLSTERED HOUSEHOLD FURNITURE	5	26	10	20	30	14	2	3	2		8	120
2619	OTHER HOUSEHOLD FURNITURE	2	21	15	7	13	7	3	2				70
2641	METAL OFFICE FURNITURE		11	10	14	17	10	7	6	1		4	80
2649	OTHER OFFICE FURNITURE	5	13	12	11	20	9	1	3			2	76
2691	BED SPRING AND MATTRESS INDUSTRY	2	16	5	7	8	6	1	2			2	49
2692	HOTEL, RESTAURANT & INSTITNL FURN.	5	47	28	38	60	22	7	2	1		2	212
2699	OTHER FURNITURE & FIXTURES N.E.C.	9	49	20	31	20	16	5	1			3	154
2711	PULP INDUSTRY	2							1	2		2	7
2712	NEWSPRINT INDUSTRY						1		4	3	4		12
2713	PAPERBOARD INDUSTRY	1				4	1	1	3			2	12
2714	BUILDING BOARD INDUSTRY		2		1								3
2719	OTHER PAPER INDUSTRIES		3		3	1	1	4	2	3			17
2721	ASPHALT ROOFING INDUSTRY				1	1	4	2					8
2731	FOLDING CARTON AND SET-UP-BOX IND.	1	8	4	9	22	8	9	2			6	69

Table 2 DISTRIBUTION OF MANUFACTURING INDUSTRIES BY SIZE OF ESTABLISHMENTS ONTARIO, 1987

sic 1	INDUSTRY DESCRIPTION	None	1-4	5-9	10-19	20-49	50-99	100-199	200-499	500-999	1000-5000+	unknown	Total
2732	CORRUGATED BOX INDUSTRY	2	4	6	7	24	16	8	4			8	79
2733	PAPER BAG INDUSTRY		4	1	2	7	1	1					16
2791	COATED AND TREATED PAPER INDUSTRY	2	7	3	7	4	6	6	2			1	38
2792	STATIONERY PAPER PRODUCTS	1	5	7	6	12	13	5	3			2	54
2793	PAPER CONSUMER PRODUCTS			1		3			2	1			7
2799	OTHER CONVERTED PAPER PRODUCTS	1	12	10	11	22	7	6	5			4	78
2811	BUSINESS FORMS PRINTING INDUSTRY		4	33	16	16	13	7	5	3	1	11	109
2819	OTHER COMMERCIAL PRINTING INDUSTRIES	84	852	444	282	181	44	31	6	4	1	99	2 028
2821	PLATENAKING, TYPESETTING & BINDERY	33	354	135	90	91	29	16	3	1		29	781
2831	BOOK PUBLISHING INDUSTRY	10	51	13	14	13	3	6	3	1		12	126
2839	OTHER PUBLISHING INDUSTRIES	39	217	96	84	54	16	3	4	1		40	554
2841	NEWSPAPER, MAGAZINE & PERIODICALS	14	62	50	33	38	17	9	4	3	5	33	268
2849	OTHER COMBINED PUBLISHING & PRINTING	2	10	8	3	3	1	3	1			2	33
2911	FERRO-ALLOYS INDUSTRY		1	2				1					4
2912	STEEL FOUNDRIES	1			2	7	1	1				1	13
2919	OTHER PRIMARY STEEL INDUSTRY	1	7	9	6	1		2	3	1	4	2	36
2921	STEEL PIPE AND TUBE INDUSTRY	1	1	3	2	6	6	1	3	3		1	27
2941	IRON FOUNDRIES		5	4	5	16	7	10	7		1	5	60
2951	PRIMARY PRODUCTION OF ALUMINUM			1									1
2959	OTHER PRIMARY SMELTING & REFINING		3	1		2	1	1	3	3	1	2	17
2961	ALUMINUM ROLLING, CASTING & EXTR.		7	10	3	12	2	3	4			5	46
2971	COPPER & COPPER ALLOY INDS.		4	3	3	8	7	3	1				29
2999	OTHER ROLLED, CAST & EXTRUDED METALS	2	9	10	5	13	6	14	9			2	70
3011	POWER BOILER & HEAT EXCHANGER IND.		6	2	4	10	4	1	1		2	4	34
3021	METAL TANKS INDUSTRY	2	7	3	11	18	5	2	2				50
3022	PLATE WORK INDUSTRY		4	4	9	13	6	1				2	39
3023	PRE-ENGINEERED METAL BUILDINGS				5	7	5	1	1			3	22
3029	OTHER FABRICATED STRUCTURAL METAL	1	25	33	33	44	14	3	2	1		4	160
3031	METAL DOOR & WINDOW IND.	7	44	33	43	48	16	3	1			13	208
3032	PREFABRICATED PORTABLE METAL BLDNGS		5	1	2	5	1						14
3039	OTHER ORN. & ARCHITECTURAL METAL	9	81	35	46	49	9	5				5	239
3041	CUSTOM COATING OF METAL PRODUCTS	4	51	45	51	64	24	5	5			9	258
3042	METAL CLOSURE & CONTAINER INDS.		7	11	8	9	10	5	7	2		4	63
3049	OTHER STAMPED & PRESSED METAL	11	100	74	64	83	27	20	5			19	403
3051	UPHOLSTERY & COIL SPRINGS	1	1	1	1	5	3	2				2	16
3052	WIRE & WIRE ROPE INDUSTRY	1	2	1	3	5	2	4	2		1	4	25

Table 2

DISTRIBUTION OF MANUFACTURING INDUSTRIES BY SIZE OF ESTABLISHMENTS ONTARIO, 1987

sic 1	INDUSTRY DESCRIPTION	None	1-4	5-9	10-19	20-49	50-99	100-199	200-499	500-999	1000-5000+	unknown	Total
3053	INDUSTRIAL FASTENER INDUSTRY	5	15	16	24	28	14	6	3			4	115
3059	OTHER WIRE PRODUCTS INDS.	4	19	11	20	24	7	6	1			4	96
3061	BASIC HARDWARE INDUSTRY	3	9	9	9	11	7	3	2			1	54
3062	METAL DIES, MOULDS & PATTERNS	17	190	126	110	110	34	8				20	615
3063	HAND TOOL AND IMPLEMENT INDUSTRY	8	20	10	14	8	2	2		1		3	68
3069	OTHER HARDWARE & CUTLERY INDUSTRY	2	61	51	23	20	7	5	1	1		3	174
3071	HEATING EQUIPMENT INDUSTRY	7	23	12	18	28	13	13	6	1		7	115
3081	MACHINE SHOP INDUSTRY	61	419	233	173	121	24	10	1			22	1 067
3091	METAL PLUMBING FIXTURES & FITTINGS		5	2	6	9	5		6			1	34
3092	METAL VALVE INDUSTRY		3	2	6	4	10	1					26
3099	OTHER METAL FABRICATING INDS. N.E.C.	9	71	60	70	77	20	13	1			4	325
3111	AGRICULTURAL IMPLEMENT INDUSTRY	8	30	20	21	16	8	3		1		5	113
3121	COMMERCIAL REFRIGERATION & AIR COND.		9	11	10	8	6	8	3			1	56
3191	COMPRESSOR, PUMP & INDUSTRIAL FAN	4	22	26	14	17	11	1	3	1		11	110
3192	CONSTRUCTION & MINING MACHINERY	9	69	55	57	64	31	17	12	2		21	337
3193	SAWMILL & WOODWORKING MACHINERY	1	11	1	2	4	1					1	21
3194	TURBINE & MECHANICAL POWER TRANSM.	1	16	12	23	17	6		5		1	8	89
3199	OTHER MACHINERY & EQUIPMENT	29	172	117	110	128	44	24	11	5	1	18	659
3211	AIRCRAFT & AIRCRAFT PARTS	3	20	20	10	14	5	3	5	5	1	6	92
3231	MOTOR VEHICLE INDUSTRY	1	4	1	4	4	1		3	1	8	1	28
3241	TRUCK & BUS BODY		11	6	11	20	4	5	3			2	62
3242	COMMERCIAL TRAILER INDUSTRY	2	5	5	7	9	4	1	2			3	38
3243	NON-COMMERCIAL TRAILERS	2	16	6	6	8	1	3	1			2	45
3244	MOBILE HOME INDUSTRY		1	1	1	1		1				1	6
3251	MOTOR VEHICLE ENGINE & ENGINE PARTS	2	8	9	3	9	5	6	4	1	2	8	57
3252	MOTOR VEHICLE WIRING ASSEMBLY		3	8	4	9	7	5	4	1		2	43
3253	MOTOR VEHICLE STAMPINGS	1	4	6	5	11	20	17	5	2		17	88
3254	MOTOR VEHICLE STEERING & SUSPENSION			4	1	2	2	3	4	1	1	3	21
3255	MOTOR VEHICLE WHEEL AND BRAKE IND.	1	6	4	5	5	6	6	8	3		2	46
3256	MOTOR VEH. PLASTIC PARTS & ACCESS.		6	9	13	17	11	16	9	2		10	93
3257	MOTOR VEHICLE FABRICS	2	5	3	3	4	1	1	2	2	2		25
3259	OTHER MOTOR VEHICLE ACCESSORIES	7	38	27	17	38	13	18	18	7	5	10	198
3261	RAILROAD ROLLING STOCK		2	1	1	4	4		3	1	2	1	19
3271	SHIPBUILDING & REPAIR INDUSTRY			1	1	3	2	2	1			2	12
3281	BOATBUILDING & REPAIR INDUSTRY	14	99	48	27	20	2	3	1			12	226
3299	OTHER TRANSPORTATION EQUIP.	3	9		1		1						14

Table 2 DISTRIBUTION OF MANUFACTURING INDUSTRIES BY SIZE OF ESTABLISHMENTS ONTARIO, 1987

sic 1	INDUSTRY DESCRIPTION	None	1-4	5-9	10-19	20-49	50-99	100-199	200-499	500-999	1000-5000+	unknown	Total
3311	SMALL ELECTRICAL APPLIANCES	1	4	9	10	12	7	9	2	3		2	59
3321	MAJOR APPLIANCE INDUSTRY	1	2	1	4	5	3	4	4	2	2	1	29
3331	LIGHTING FIXTURE INDUSTRY	2	22	6	11	14	7	4	1			4	71
3332	ELECTRIC LAMP & SHADE INDUSTRY		1	4	6	7	6	5	1			2	32
3333	ELECTRIC LAMP INDUSTRY	1	7	1	1	1		1	1	1		2	16
3341	RECORD PLAYER, RADIO & TELEVISION	1	9	8	5	4	1	1	1		1	4	35
3351	TELECOMMUNICATION EQUIPMENT	1	5	6	5	5		3	3	3	4	9	44
3352	ELECTRONIC PARTS & COMPONENTS	11	96	46	48	42	19	13	1	1		11	288
3359	OTHER COMMUNICATION & ELECT. EQUIP.	5	42	29	31	21	7	11	5	3	2	7	163
3361	ELECTRONIC COMPUTING & PERIPHERALS	17	48	33	32	21	10	4	5	1	1	5	177
3362	EL. OFFICE, STORE & BUSINESS MACH.		3	1	1	1	1					2	9
3369	OTHER OFFICE, STORE & BUS. MACHINES	1	13	9	5	5	3	2	1			3	42
3371	ELECTRICAL TRANSFORMER INDUSTRY	1	5	3	6	6	2	7	6	1		7	44
3372	ELECT. SWITCHGEAR & PROTECTIVE EQUIP		13	5	6	11	4	6	2	3	1	9	60
3379	OTHER ELECTRICAL INDUSTRIAL EQUIP.	2	26	15	11	17	9	9	4	1	2	4	100
3381	COMMUNICATIONS & ENERGY WIRE & CABLE	1	4	1	3	7	5	6	2	1		6	37
3391	BATTERY INDUSTRY		5	5	1	1	1	2	3			5	23
3392	NON-CURRENT CARRYING WIRING DEVICES			1	7	5	4	2				1	20
3399	OTHER ELECTRICAL PRODUCTS INDUSTRIES	3	5	16	8	17	1	6	3	1		6	66
3511	CLAY PRODUCTS INDUSTRY		1	2	4	4	3	2				4	20
3512	CLAY PRODUCTS (FROM IMPORTED CLAY)	12	25	10	3	6	5	4		1		1	67
3521	HYDRAULIC CEMENT		1			1	1	5	2			2	12
3541	CONCRETE PIPE INDUSTRY		2			4	2	2		1		6	17
3542	STRUCTURAL CONCRETE PRODUCTS IND.	2	7	7	8	6	4	3				1	38
3549	OTHER CONCRETE PRODUCTS INDUSTRIES	4	41	23	34	33	3	7				14	159
3551	READY-MIX CONCRETE	5	25	40	36	29	4	3	1			62	205
3561	PRIMARY GLASS & GLASS CONTAINERS		4	2	4	4		2	1	4	1	3	25
3562	GLASS PRODUCTS INDUSTRY	6	39	22	11	16	6	4	2	2		2	110
3571	ABRASIVES INDUSTRY		2	2	2	7	6	3	1				23
3581	LIME INDUSTRY		1			2	3						6
3591	REFRACTORIES INDUSTRY		4	5	3	3	3	1				6	25
3592	ASBESTOS PRODUCTS INDUSTRY					1			1				2
3593	GYPNUM PRODUCTS		2		1	2			2			4	11
3594	NON-METALLIC MINERAL INSULATING MAT.	1	1	3	6	3	5	4	2	1		4	30
3599	OTHER NON-METALLIC MINERAL PRODUCTS	6	38	13	15	8	1	1				2	84
3611	REFINED PETROLEUM PRODUCTS	1	1			2		2	2		2	5	15

Table 2

DISTRIBUTION OF MANUFACTURING INDUSTRIES BY SIZE OF ESTABLISHMENTS ONTARIO, 1987

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sic 1	INDUSTRY DESCRIPTION	None	1-4	5-9	10-19	20-49	50-99	100-199	200-499	500-999	1000-5000+	unknown	Total
3612	LUBRICATING OIL & GREASE		3	10	3	6	2					4	28
3699	OTHER PETROLEUM & COAL PRODUCTS	1	5	9	4	4	1					13	37
3711	INDUSTRIAL INORGANIC CHEMICAL IND.	1	7	6	8	7	5	5	6	2	1	12	60
3712	INDUSTRIAL ORGANIC CHEMICALS	3	6	7	6	8	4	3			2	6	47
3721	CHEM. FERTILIZER & FERTILIZER MATER.	1		1	1				2	1			6
3722	MIXED FERTILIZER INDUSTRY		11	14	20	11	1					1	58
3729	OTHER AGRICULTURAL CHEMICALS		2		1	3	2					1	9
3731	PLASTIC & SYNTHETIC RESIN INDUSTRY	1	15	4	13	9	16	8	2			6	74
3741	PHARMACEUTICAL & MEDICINE INDUSTRY	4	21	15	10	16	18	13	11	2		9	109
3751	PAINT & VARNISH INDUSTRY	3	15	23	15	25	8	5	1			7	102
3761	SOAP & CLEANING COMPOUNDS INDUSTRY	4	26	15	11	10	4	6	7	5		5	93
3771	TOILET PREPARATIONS INDUSTRY	5	14	9	15	8	10	5	6			10	82
3791	PRINTING INK INDUSTRY		3	6	3	10	4		2			9	37
3792	ADHESIVES INDUSTRY	1	7	5	5	8	3	1	1			1	32
3799	OTHER CHEMICAL PRODUCTS INDUSTRY	16	51	33	36	41	14	7	7	1		24	230
3911	INDICATING, RECORDING & CONTROLLING EQ.	14	52	39	29	34	16	8	4	1	2	10	209
3912	OTHER INSTRUMENTS & RELATED PRODUCTS	7	37	30	33	19	8	4	6	1		2	147
3913	CLOCK & WATCH INDUSTRY	2	12	5	3	2	3					1	28
3914	OPHTHALMIC GOODS INDUSTRY	3	22	25	8	16	3	1	1			16	95
3921	JEWELLERY & SILVERWARE INDUSTRY	17	141	67	25	24	10	7	2			3	296
3922	PRECIOUS METAL SECONDARY REFINING	1	4			2		1	1			2	11
3931	SPORTING GOODS INDUSTRY	6	55	32	21	35	12	1	3	2	1	5	173
3932	TOYS & GAMES INDUSTRY	7	35	18	11	6	3	5	3			3	91
3971	SIGN & DISPLAY INDUSTRY	41	172	82	63	43	15	5	3			14	438
3991	BROOM, BRUSH & HOP INDUSTRY		6	7	3	7	2	1	1			1	28
3992	BUTTON, BUCKLE & CLOTH FASTENER IND.		2		1	4	1	1					9
3993	FLOOR TILE, LINOLEUM & COATED FABRIC		1	1	3	1		2	3			1	12
3994	MUSICAL INSTRUMENT & SOUND RECORDING	7	16	14	8	12	4			1		2	64
3999	OTHER MANUFACTURED PRODUCTS N.E.C.	67	313	151	128	85	16	16	2			31	809
	TOTALS	927	6,308	3,819	3,330	3,565	1,366	894	503	148	75	1,277	22,203
	% DISTRIBUTION BY SIZE	4.18%	28.41%	17.20%	15.00%	16.06%	6.15%	4.03%	2.27%	0.67%	0.34%	5.75%	100%

Source: Statistics Canada, Business Register, Table 07, Cycle 195, Province by Employment Size and sic 80-Active, Statistical Establishments, 1987

Table 3

ONTARIO MANUFACTURING EMPLOYMENT BY INDUSTRY DIVISION AND SEX
1985

SIC 1	INDUSTRY DESCRIPTION	# ESTABS	Production and Related Workers			Administration Office and Non-Manufacturing Employees		
			# MALES P.WRKS	# FEMALES P.WRKS	% F	# MALES ADMIN	# FEMALES ADMIN	% F
0	ALL MANUFACTURING	15,570	497,194	169,637	25.4%	165,871	78,716	32.2%
1000	FOOD INDUSTRIES	1,054	33,492	16,743	33.3%	15,823	8,183	34.1%
1010	MEAT AND POULTRY PRODUCTS	220	8,568	3,728	30.3%	2,371	1,055	30.8%
1011	MEAT AND MEAT PRODUCTS (EX. POULTRY)	190	7,015	1,788	20.3%	1,930	849	30.6%
1012	POULTRY PRODUCTS INDUSTRY	30	1,553	1,940	55.5%	441	206	31.8%
1021	FISH PRODUCTS INDUSTRY	16	0	0	0.0%	0	0	0.0%
1030	FRUIT AND VEGETABLE INDUSTRIES	95	3,941	2,405	37.9%	1,481	945	39.0%
1031	CANNED/PRESERVED FRUIT & VEGETABLES	81	3,328	1,915	36.5%	1,348	878	39.4%
1032	FROZEN FRUIT AND VEGETABLES	14	613	490	44.4%	133	67	33.5%
1040	DAIRY PRODUCTS INDUSTRY	145	4,227	872	17.1%	2,206	1,155	34.4%
1041	FLUID MILK INDUSTRY	52	2,105	213	9.2%	1,702	828	32.7%
1049	OTHER DAIRY PRODUCTS	93	2,122	659	23.7%	504	327	39.4%
1050	FLOUR, PREPARED CEREAL & FEED INDS.	213	4,082	709	14.8%	1,758	870	33.1%
1051	CEREAL GRAIN FLOUR INDUSTRY	20	716	22	3.0%	281	149	34.7%
1052	PREPARED FLOUR & CEREAL FOODS	9	1,240	486	28.2%	538	289	34.9%
1053	FEED INDUSTRY	184	2,126	201	8.6%	939	432	31.5%
1061	VEGETABLE OIL MILLS (EX. CORN OIL)	3	242	8	3.2%	83	35	29.7%
1070	BAKERY PRODUCTS INDUSTRIES	155	4,863	3,614	42.6%	2,417	798	24.8%
1071	BISCUIT INDUSTRIES	16	984	1,569	61.5%	565	298	34.5%
1072	BREAD AND OTHER BAKERY PRODUCTS	139	3,879	2,045	34.5%	1,852	500	21.3%
1080	SUGAR AND SUGAR CONFECTIONERY INDS.	47	0	0	0.0%	0	0	0.0%
1081	CANE AND BEET SUGAR INDUSTRY	2	0	0	0.0%	0	0	0.0%
1082	CHEWING GUM INDUSTRY	5	0	0	0.0%	0	0	0.0%
1083	SUGAR AND CHOCOLATE CONFECTIONERY	40	1,784	1,977	52.6%	709	768	52.0%
1090	OTHER FOOD PRODUCTS INDUSTRIES	160	4,990	2,860	36.4%	4,404	2,264	34.0%
1091	TEA AND COFFEE INDUSTRY	10	365	103	23.0%	474	295	38.4%
1092	DRY PASTA PRODUCTS INDUSTRY	13	218	208	48.8%	381	182	32.3%
1093	POTATO CHIP, PRETZEL AND POPCORN	10	431	450	51.1%	1,137	236	17.2%
1094	MALT AND MALT FLOUR INDUSTRY							
1099	OTHER FOOD PRODUCTS N.E.C.	127	3,996	2,099	34.4%	2,412	1,551	39.1%
1100	BEVERAGE INDUSTRIES	100	5,657	530	8.6%	4,055	1,533	27.4%
1111	SOFT DRINK INDUSTRY	58	1,737	116	6.3%	1,955	569	22.5%
1120	DISTILLERY PRODUCTS INDUSTRY	14	847	300	26.2%	1,002	466	31.7%

SIC 1	INDUSTRY DESCRIPTION	# ESTABS	Production and Related Workers				Administration Office and Non-Manufacturing Employees			
			# MALES P.URKS	# FEMALES P.URKS	% F	# MALES ADMIN	# FEMALES ADMIN	% F		
1121	DISTILLERY PRODUCTS INDUSTRY	14	847	300	26.2%	1,002	466	31.7%		
1131	BREWERY PRODUCTS INDUSTRY	12	2,806	30	1.1%	907	341	27.3%		
1141	WINE INDUSTRY	16	267	84	23.9%	191	157	45.1%		
1200	TOBACCO PRODUCTS INDUSTRIES	12	986	535	35.2%	821	348	29.8%		
1211	LEAF TOBACCO INDUSTRY	6	0	0	0.0%	0	0	0.0%		
1221	TOBACCO PRODUCTS INDUSTRY	6	0	0	0.0%	0	0	0.0%		
1500	RUBBER PRODUCTS INDUSTRIES	78	8,805	1,601	15.4%	3,748	1,148	23.4%		
1511	TIRE AND TUBE INDUSTRY									
1521	RUBBER HOSE AND BELTING INDUSTRY	14	0	0	0.0%	0	0	0.0%		
1599	OTHER RUBBER PRODUCTS INDUSTRIES	64	0	0	0.0%	0	0	0.0%		
1600	PLASTIC PRODUCTS INDUSTRIES	546	11,382	6,794	37.4%	2,763	1,628	37.1%		
1611	FOAMED AND EXPANDED PLASTIC PRODUCTS	39	874	491	36.0%	165	73	30.7%		
1621	PLASTIC PIPE AND PIPE FITTINGS	35	788	345	30.5%	272	140	34.0%		
1631	PLASTIC FILM AND SHEETING IND.	26	1,601	185	10.4%	716	326	31.3%		
1690	OTHER PLASTIC INDUSTRIES	446	8,119	5,773	41.6%	1,610	1,089	40.3%		
1691	PLASTIC BAG INDUSTRY	50	1,371	930	40.4%	409	233	36.3%		
1699	OTHER PLASTIC PRODUCTS	396	6,748	4,843	41.8%	1,201	856	41.6%		
1700 to 2499 to be dealt with in a separate report										
2500	WOOD INDUSTRIES	851	17,385	2,392	12.1%	2,575	855	24.9%		
2510	SAWMILL, PLANING, AND SHINGLE MILLS	212	6,274	252	3.9%	1,006	152	13.1%		
2511	SHINGLE AND SHAKE INDUSTRY	0	0	0	0.0%	0	0	0.0%		
2512	SAWMILL AND PLANING MILL PRODUCTS	212	6,274	252	3.9%	1,006	152	13.1%		
2521	HARDWOOD VENEER AND PLYWOOD INDUSTRY	19	1,020	565	35.6%	201	78	28.0%		
2522	SOFTWOOD VENEER AND PLYWOOD INDUSTRY	0	0	0	0.0%	0	0	0.0%		
2540	SASH, DOOR AND OTHER MILLWORK	407	6,556	1,190	15.4%	939	455	32.6%		
2541	PREFABRICATED WOODEN BUILDINGS	17	411	8	1.9%	125	40	24.2%		
2542	WOODEN KITCH. CABINET & BATHRM VAN.	209	2,338	378	13.9%	285	157	35.5%		

Administration Office and
Non-Manufacturing Employees

Production and
Related Workers

SIC 1	INDUSTRY DESCRIPTION	# ESTABS	# MALES P.URKS	# FEMALES P.URKS	% F	# MALES ADMIN	# FEMALES ADMIN	% F
2543	WOODEN DOOR AND WINDOW INDUSTRY	74	1,830	500	21.5%	256	159	38.3%
2549	OTHER MILLWORK INDUSTRIES	107	1,977	304	13.3%	273	99	26.6%
2561	WOODEN BOX & PALLET INDUSTRY	90	1,209	134	10.0%	138	71	34.0%
2581	COFFIN AND CASKET INDUSTRIES	5	151	8	5.0%	8	6	42.9%
2590	OTHER WOOD INDUSTRIES	118	2,175	243	10.0%	283	93	24.7%
2591	WOOD PRESERVATION IND.	8	195	7	3.5%	17	11	39.3%
2592	PARTICLE BOARD INDUSTRY	12	536	29	5.1%	80	36	31.0%
2593	WAFFER BOARD INDUSTRY	5	671	12	1.8%	134	21	13.5%
2599	OTHER WOOD INDUSTRIES	93	773	195	20.1%	52	25	32.5%
2600	FURNITURE AND FIXTURE INDUSTRIES	714	18,119	5,371	22.9%	2,615	1,613	38.2%
2610	HOUSEHOLD FURNITURE INDUSTRIES	348	7,249	3,033	29.5%	808	562	41.0%
2611	WOODEN HOUSEHOLD FURNITURE	221	3,769	1,269	25.2%	381	206	35.1%
2612	UPHOLSTERED HOUSEHOLD FURNITURE	71	2,417	1,396	36.6%	298	277	48.2%
2619	OTHER HOUSEHOLD FURNITURE	56	1,063	368	25.7%	129	79	38.0%
2640	OFFICE FURNITURE INDUSTRIES	102	4,991	906	15.4%	896	553	38.2%
2641	METAL OFFICE FURNITURE	51	2,879	480	14.3%	574	314	35.4%
2649	OTHER OFFICE FURNITURE	51	2,112	426	16.8%	322	239	42.6%
2690	OTHER FURNITURE AND FIXTURES	264	5,879	1,432	19.6%	911	498	35.3%
2691	BED SPRING AND MATTRESS INDUSTRY	31	786	346	30.6%	140	77	35.5%
2692	HOTEL, RESTAURANT & INSTTL FURN.	143	3,151	459	12.7%	496	207	29.4%
2699	OTHER FURNITURE & FIXTURES N.E.C.	90	1,942	627	24.4%	275	214	43.8%
2700	PAPER & ALLIED INDUSTRIES	317	27,209	4,042	12.9%	6,910	2,829	29.0%
2710	PULP AND PAPER INDUSTRIES	35	14,912	360	2.4%	3,388	1,171	25.7%
2711	PULP INDUSTRY	5	2,727	131	4.6%	580	214	27.0%
2712	NEWSPRINT INDUSTRY	9	6,252	27	0.4%	1,609	547	25.4%
2713	PAPERBOARD INDUSTRY	10	2,196	30	1.3%	326	119	26.7%
2714	BUILDING BOARD INDUSTRY	1	0	0	0.0%	0	0	0.0%
2719	OTHER PAPER INDUSTRIES	10	0	0	0.0%	0	0	0.0%
2721	ASPHALT ROOFING INDUSTRY	7	457	10	2.1%	52	45	46.4%
2730	PAPER BOX AND BAG INDUSTRY	133	6,438	1,440	18.3%	1,520	644	29.8%
2731	FOLDING CARTON AND SET-UP-BOX IND.	58	2,524	822	24.6%	484	215	30.8%
2732	CORRUGATED BOX INDUSTRY	64	3,631	438	10.8%	914	365	28.5%
2733	PAPER BAG INDUSTRY	11	283	180	38.9%	122	64	34.4%
2790	OTHER CONVERTED PAPER PRODUCTS	142	5,402	2,232	29.2%	1,950	969	33.2%

Table 3

ONTARIO MANUFACTURING EMPLOYMENT BY INDUSTRY DIVISION AND SEX, 1985

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SIC 1	INDUSTRY DESCRIPTION	# ESTABS	Production and Related Workers				Administration Office and Non-Manufacturing Employees			
			# MALES P.WRKS	# FEMALES P.WRKS	% F	# MALES ADMIN	# FEMALES ADMIN	% F		
2791	COATED AND TREATED PAPER INDUSTRY	24	1,149	215	15.8%	290	227	43.9%		
2792	STATIONERY PAPER PRODUCTS	39	1,127	846	42.9%	458	349	43.2%		
2793	PAPER CONSUMER PRODUCTS	7	657	289	30.5%	387	201	34.2%		
2799	OTHER CONVERTED PAPER PRODUCTS	72	2,469	882	26.3%	815	192	19.1%		
2800	PRINTING, PUBLISHING & ALLIED INDS.	2,414	23,974	12,270	33.9%	11,700	11,679	50.0%		
2810	COMMERCIAL PRINTING INDUSTRIES	1,364	14,722	7,159	32.7%	3,708	3,183	46.2%		
2811	BUSINESS FORMS PRINTING INDUSTRY	74	1,715	555	24.4%	1,125	775	40.8%		
2819	OTHER COMMERCIAL PRINTING INDUSTRIES	1,290	13,007	6,604	33.7%	2,583	2,408	48.2%		
2821	PLATEMAKING, TYPESETTING & BINDERY	440	4,178	2,840	40.5%	640	435	40.5%		
2830	PUBLISHING INDUSTRIES	401	0	0	0.0%	2,880	4,136	59.0%		
2831	BOOK PUBLISHING INDUSTRY	76	0	0	0.0%	906	1,656	64.6%		
2839	OTHER PUBLISHING INDUSTRIES	325	0	0	0.0%	1,974	2,480	55.7%		
2840	COMBINED PUBLISHING & PRINTING INDS.	209	5,074	2,271	30.9%	4,472	3,925	46.7%		
2841	NEWSPAPER, MAGAZINE & PERIODICALS	194	4,918	2,206	31.0%	4,442	3,891	46.7%		
2849	OTHER COMBINED PUBLISHING & PRINTING	15	156	65	29.4%	30	34	53.1%		
2900	PRIMARY METALS INDUSTRIES	228	47,782	1,921	3.9%	11,468	2,869	20.0%		
2910	PRIMARY STEEL INDUSTRIES	27	27,514	724	2.6%	6,951	1,613	18.8%		
2911	FERRO-ALLOYS INDUSTRY	1	0	0	0.0%	0	0	0.0%		
2912	STEEL FOUNDRIES	11	0	0	0.0%	0	0	0.0%		
2919	OTHER PRIMARY STEEL INDUSTRY	15	26,382	703	2.6%	6,836	1,563	18.6%		
2921	STEEL PIPE AND TUBE INDUSTRY	19	3,178	80	2.5%	543	168	23.6%		
2940	IRON FOUNDRIES	53	4,529	138	3.0%	753	209	21.7%		
2950	NON-FERROUS METAL SMELTING & REF.	11	4,907	76	1.5%	1,775	362	16.9%		
2961	ALUMINUM ROLLING, CASTING & EXTR.	37	2,677	202	7.0%	625	206	24.8%		
2971	COPPER & COPPER ALLOY INDS.	26	1,769	62	3.4%	179	86	32.5%		
2999	OTHER ROLLED, CAST & EXTRUDED METALS	55	3,208	639	16.6%	642	225	26.0%		
3000	FABRICATED METAL PRODUCTS INDS.	2,967	57,532	9,107	13.7%	10,902	4,709	30.2%		
3011	POWER BOILER & HEAT EXCHANGER IND.	25	1,613	35	2.1%	1,057	327	23.6%		
3020	FABRICATED STRUCTURAL METAL PRODUCTS	166	5,956	152	2.5%	1,243	380	23.4%		
3021	METAL TANKS INDUSTRY	34	1,447	34	2.3%	220	73	24.9%		
3022	PLATE WORK INDUSTRY	17	590	12	2.0%	112	31	21.7%		
3023	PRE-ENGINEERED METAL BUILDINGS	15	569	12	2.1%	279	91	24.6%		
3029	OTHER FABRICATED STRUCTURAL METAL	100	3,350	94	2.7%	632	185	22.6%		

Table 3

ONTARIO MANUFACTURING EMPLOYMENT BY INDUSTRY DIVISION AND SEX, 1985

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SIC 1	INDUSTRY DESCRIPTION	# ESTABS	Production and Related Workers				Administration Office and Non-Manufacturing Employees			
			# MALES P.WRKS	# FEMALES P.WRKS	% F	# MALES ADMIN	# FEMALES ADMIN	% F		
3030	ORNAMENTAL & ARCHITECTURAL METAL	321	4,853	699	12.6%	937	415	30.7%		
3031	METAL DOOR & WINDOW IND.	137	2,603	535	17.0%	580	258	30.8%		
3032	PREFABRICATED PORTABLE METAL BLDNGS	9	131	14	9.7%	36	13	26.5%		
3039	OTHER ORN. & ARCHITECTURAL METAL	175	2,119	150	6.6%	321	144	31.0%		
3040	STAMPED, PRESSED & COATED METALS	525	13,198	3,040	18.7%	2,600	1,161	30.9%		
3041	CUSTOM COATING OF METAL PRODUCTS	170	4,195	1,199	22.2%	454	232	33.8%		
3042	METAL CLOSURE & CONTAINER INDS.	51	3,064	663	17.8%	778	266	25.5%		
3049	OTHER STAMPED & PRESSED METAL	304	5,939	1,178	16.6%	1,368	663	32.6%		
3050	WIRE & WIRE PRODUCTS	193	6,061	1,139	15.8%	1,555	689	30.7%		
3051	UPHOLSTERY & COIL SPRINGS	21	1,442	99	6.4%	381	136	26.3%		
3052	WIRE & WIRE ROPE INDUSTRY	87	2,660	416	13.5%	717	312	30.3%		
3059	OTHER WIRE PRODUCTS INDS.	85	1,959	624	24.2%	457	241	34.5%		
3060	HARDWARE, TOOL & CUTLERY INDS.	676	10,798	1,778	14.1%	1,334	743	35.8%		
3061	BASIC HARDWARE INDUSTRY	39	1,200	596	33.2%	336	186	35.6%		
3062	METAL DIES, MOULDS & PATTERNS	453	6,897	444	6.0%	419	198	32.1%		
3063	HAND TOOL AND IMPLEMENT INDUSTRY	46	739	170	18.7%	233	143	38.0%		
3069	OTHER HARDWARE & CUTLERY INDUSTRY	138	1,962	568	22.5%	346	216	38.4%		
3071	HEATING EQUIPMENT INDUSTRY	82	2,182	507	18.9%	446	243	35.3%		
3081	MACHINE SHOP INDUSTRY	680	5,907	687	10.4%	211	96	31.3%		
3090	OTHER METAL FABRICATING INDUSTRIES	299	6,964	1,070	13.3%	1,519	655	30.1%		
3091	METAL PLUMBING FIXTURES & FITTINGS	28	1,072	385	26.4%	346	164	32.2%		
3092	METAL VALVE INDUSTRY	23	508	93	15.5%	244	126	34.1%		
3099	OTHER METAL FABRICATING INDS. N.E.C.	248	5,384	592	9.9%	929	365	28.2%		
3100	MACHINERY INDUSTRIES	918	28,408	3,315	10.4%	9,336	3,335	26.3%		
3111	AGRICULTURAL IMPLEMENT INDUSTRY	77	2,952	81	2.7%	826	159	16.1%		
3121	COMMERCIAL REFRIGERATION & AIR COND.	35	1,682	171	9.2%	538	259	32.5%		
3190	OTHER MACHINERY & EQUIP.	806	23,774	3,063	11.4%	7,972	2,917	26.8%		
3191	COMPRESSOR, PUMP & INDUSTRIAL FAN	65	1,360	224	14.1%	691	313	31.2%		
3192	CONSTRUCTION & MINING MACHINERY	212	7,827	515	6.2%	2,656	971	26.8%		
3193	SAWMILL & WOODWORKING MACHINERY	11	263	32	10.8%	42	21	33.3%		
3194	TURBINE & MECHANICAL POWER TRANSM.	65	2,603	351	11.9%	1,279	357	21.8%		
3199	OTHER MACHINERY & EQUIPMENT	453	11,721	1,941	14.2%	3,304	1,255	27.5%		
3200	TRANSPORTATION EQUIPMENT	711	103,912	22,768	18.0%	22,669	6,783	23.0%		
3211	AIRCRAFT & AIRCRAFT PARTS	72	9,473	773	7.5%	3,635	1,077	22.9%		

Table 3

ONTARIO MANUFACTURING EMPLOYMENT BY INDUSTRY DIVISION AND SEX, 1985

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		Production and Related Workers				Administration Office and Non-Manufacturing Employees				
SIC 1	INDUSTRY DESCRIPTION	# ESTABS	# MALES		# FEMALES		# MALES		# FEMALES	
			P.WRKS	% F	P.WRKS	% F	ADMIN	ADMIN	ADMIN	% F
3231	MOTOR VEHICLE INDUSTRY	11	37,732	1,427	3.6%	7,751	1,780	18.7%		
3240	TRUCK BODY & TRAILERS	88	0	0	0.0%	0	0	0.0%		
3241	TRUCK & BUS BODY	37	1,395	84	5.7%	119	51	30.0%		
3242	COMMERCIAL TRAILER INDUSTRY	27	1,389	34	2.4%	370	117	24.0%		
3243	NON-COMMERCIAL TRAILERS	20	682	105	13.3%	85	35	29.2%		
3244	MOBILE HOME INDUSTRY	4	0	0	0.0%	0	0	0.0%		
3250	MOTOR VEHICLE PARTS & ACCESSORIES	402	47,742	20,105	29.6%	9,240	3,244	26.0%		
3251	MOTOR VEHICLE ENGINE & ENGINE PARTS	29	11,541	1,573	12.0%	1,886	289	13.3%		
3252	MOTOR VEHICLE WIRING ASSEMBLY	25	0	0	0.0%	0	0	0.0%		
3253	MOTOR VEHICLE STAMPINGS	74	8,103	1,652	16.9%	1,198	455	27.5%		
3254	MOTOR VEHICLE STEERING & SUSPENSION	20	0	0	0.0%	0	0	0.0%		
3255	MOTOR VEHICLE WHEEL AND BRAKE IND.	30	4,672	557	10.7%	939	351	27.2%		
3256	MOTOR VEH. PLASTIC PARTS & ACCESS.	67	3,927	3,505	47.2%	778	395	33.7%		
3257	MOTOR VEHICLE FABRICS	11	2,087	3,506	62.7%	543	224	29.2%		
3259	OTHER MOTOR VEHICLE ACCESSORIES	146	13,673	6,072	30.8%	2,734	1,048	27.7%		
3261	RAILROAD ROLLING STOCK	14	2,790	141	4.8%	1,120	332	22.9%		
3271	SHIPBUILDING & REPAIR INDUSTRY	11	1,346	6	0.4%	222	80	26.5%		
3281	BOATBUILDING & REPAIR INDUSTRY	108	1,216	103	7.8%	96	55	36.4%		
3299	OTHER TRANSPORTATION EQUIP.	5	0	0	0.0%	0	0	0.0%		
3300	ELECTRICAL & ELECTRONIC PRODUCTS	793	34,512	22,385	39.3%	21,678	9,091	29.5%		
3311	SMALL ELECTRICAL APPLIANCES	38	2,092	1,126	35.0%	791	408	34.0%		
3321	MAJOR APPLIANCE INDUSTRY	20	3,465	883	20.3%	1,501	585	28.0%		
3330	ELECTRIC LIGHTING INDUSTRIES	84	0	0	0.0%	0	0	0.0%		
3331	LIGHTING FIXTURE INDUSTRY	49	840	665	44.2%	320	166	34.2%		
3332	ELECTRIC LAMP & SHADE INDUSTRY	28	370	309	45.5%	38	48	55.8%		
3333	ELECTRIC LAMP INDUSTRY	7	0	0	0.0%	0	0	0.0%		
3341	RECORD PLAYER, RADIO & TELEVISION	11	0	0	0.0%	0	0	0.0%		
3350	COMMUNICATIONS & OTHER ELECT. EQUIP.	294	0	0	0.0%	0	0	0.0%		
3351	TELECOMMUNICATION EQUIPMENT	22	0	0	0.0%	0	0	0.0%		
3352	ELECTRONIC PARTS & COMPONENTS	165	2,503	3,309	56.9%	747	479	39.1%		
3359	OTHER COMMUNICATION & ELECT. EQUIP.	107	4,598	3,058	39.9%	2,698	1,346	33.3%		
3360	OFFICE, STORE & BUSINESS MACHINES	91	3,299	2,268	40.7%	4,632	1,589	25.5%		
3361	ELECTRONIC COMPUTING & PERIPHERALS	67	2,700	1,799	40.0%	2,881	1,295	31.0%		
3362	EL. OFFICE, STORE & BUSINESS MACH.									
3369	OTHER OFFICE, STORE & BUS. MACHINES	24	599	469	43.9%	1,751	294	14.4%		

Table 3

ONTARIO MANUFACTURING EMPLOYMENT BY INDUSTRY DIVISION AND SEX, 1985

page 7

SIC 1	INDUSTRY DESCRIPTION	# ESTABS	Production and Related Workers				Administration Office and Non-Manufacturing Employees			
			# MALES P.WRKS	# FEMALES P.WRKS	% F	# MALES ADMIN	# FEMALES ADMIN	% F		
3370	ELECTRICAL INDUSTRIAL EQUIP.	149	8,285	3,542	29.9%	3,724	1,219	24.7%		
3371	ELECTRICAL TRANSFORMER INDUSTRY	35	2,535	976	27.8%	1,087	233	17.7%		
3372	ELECT. SWITCHGEAR & PROTECTIVE EQUIP	44	1,952	1,161	37.3%	1,162	451	28.0%		
3379	OTHER ELECTRICAL INDUSTRIAL EQUIP.	70	3,798	1,405	27.0%	1,475	535	26.6%		
3381	COMMUNICATIONS & ENERGY WIRE & CABLE	28	2,859	281	8.9%	1,105	428	27.9%		
3390	OTHER ELECTRICAL PRODUCTS	78	2,597	2,048	44.1%	1,007	534	34.7%		
3391	BATTERY INDUSTRY	15	1,050	337	24.3%	454	264	36.8%		
3392	NON-CURRENT CARRYING WIRING DEVICES	17	554	131	19.1%	209	91	30.3%		
3399	OTHER ELECTRICAL PRODUCTS INDUSTRIES	46	993	1,580	61.4%	344	179	34.2%		
3500	NON-METALLIC MINERAL PRODUCTS	566	17,196	1,905	10.0%	4,365	1,752	28.6%		
3510	CLAY PRODUCTS	42	833	123	12.9%	170	60	26.1%		
3511	CLAY PRODUCTS INDUSTRY	17	548	31	5.4%	129	43	25.0%		
3512	CLAY PRODUCTS (FROM IMPORTED CLAY)	25	285	92	24.4%	41	17	29.3%		
3521	HYDRAULIC CEMENT	7	882	0	0.0%	266	89	25.1%		
3540	CONCRETE PRODUCTS INDUSTRY	166	3,246	124	3.7%	392	141	26.5%		
3541	CONCRETE PIPE INDUSTRY	11	415	6	1.4%	104	44	29.7%		
3542	STRUCTURAL CONCRETE PRODUCTS IND.	23	742	14	1.9%	103	37	26.4%		
3549	OTHER CONCRETE PRODUCTS INDUSTRIES	132	2,089	104	4.7%	185	60	24.5%		
3551	READY-MIX CONCRETE	163	2,234	48	2.1%	348	159	31.4%		
3560	GLASS & GLASS PRODUCTS	68	0	0	0.0%	0	0	0.0%		
3561	PRIMARY GLASS & GLASS CONTAINERS	9	0	0	0.0%	0	0	0.0%		
3562	GLASS PRODUCTS INDUSTRY	59	2,734	452	14.2%	442	158	26.3%		
3571	ABRASIVES INDUSTRY	22	956	185	16.2%	298	129	30.2%		
3580	LIME INDUSTRY	5	337	0	0.0%	37	19	33.9%		
3581	LIME INDUSTRY	5	337	0	0.0%	37	19	33.9%		
3590	OTHER NON-METALLIC MINERALS	93	0	0	0.0%	0	0	0.0%		
3591	REFRATORIES INDUSTRY	14	313	5	1.6%	227	81	26.3%		
3592	ASBESTOS PRODUCTS INDUSTRY	3	0	0	0.0%	0	0	0.0%		
3593	GYPSUM PRODUCTS	6	646	10	1.5%	314	109	25.8%		
3594	NON-METALLIC MINERAL INSULATING MAT.	19	1,162	64	5.2%	693	269	28.0%		
3599	OTHER NON-METALLIC MINERAL PRODUCTS	51	1,252	55	4.2%	206	79	27.7%		
3600	REFINED PETROLEUM & COAL PRODUCTS	43	2,486	72	2.8%	4,340	2,393	35.5%		
3610	REFINED PETROLEUM PRODUCTS INDUSTRY	23	2,390	58	2.4%	4,308	2,383	35.6%		
3611	REFINED PETROLEUM PRODUCTS	9	2,068	54	2.5%	4,147	2,309	35.8%		

SIC 1	INDUSTRY DESCRIPTION	# ESTABS	Production and Related Workers		Administration Office and Non-Manufacturing Employees			
			# MALES P.WRKS	# FEMALES P.WRKS	% F	# MALES ADMIN	# FEMALES ADMIN	% F
3612	LUBRICATING OIL & GREASE	14	322	4	1.2%	161	74	31.5%
3699	OTHER PETROLEUM & COAL PRODUCTS	20	96	14	12.7%	32	10	23.8%
3700	CHEMICAL & CHEMICAL PRODUCTS	627	20,074	6,147	23.4%	16,297	8,182	33.4%
3710	INDUSTRIAL CHEMICALS INDUSTRIES	63	6,201	401	6.1%	3,835	1,512	28.3%
3711	INDUSTRIAL INORGANIC CHEMICAL IND.	36	2,437	85	3.4%	1,861	863	31.7%
3712	INDUSTRIAL ORGANIC CHEMICALS	27	3,764	316	7.7%	1,974	649	24.7%
3720	AGRICULTURAL CHEMICALS	52	1,061	71	6.3%	919	362	28.3%
3721	CHEM. FERTILIZER & FERTILIZER WATER.	2	0	0	0.0%	0	0	0.0%
3722	MIXED FERTILIZER INDUSTRY	45	0	0	0.0%	0	0	0.0%
3729	OTHER AGRICULTURAL CHEMICALS	5	107	34	24.1%	284	121	29.9%
3731	PLASTIC & SYNTHETIC RESIN INDUSTRY	51	1,950	64	3.2%	1,035	433	29.5%
3741	PHARMACEUTICAL & MEDICINE INDUSTRY	68	1,861	2,236	54.6%	3,210	2,277	41.5%
3751	PAINT & VARNISH INDUSTRY	80	1,995	188	8.6%	1,318	538	29.0%
3761	SOAP & CLEANING COMPOUNDS INDUSTRY	62	2,598	701	21.2%	2,442	713	22.6%
3771	TOILET PREPARATIONS INDUSTRY	45	931	1,807	66.0%	844	1,032	55.0%
3790	OTHER CHEMICAL PRODUCTS INDUSTRIES	206	3,477	679	16.3%	2,694	1,315	32.8%
3791	PRINTING INK INDUSTRY	29	613	33	5.1%	419	210	33.4%
3792	ADHESIVES INDUSTRY	22	326	116	26.2%	232	134	36.6%
3799	OTHER CHEMICAL PRODUCTS INDUSTRY	155	2,538	530	17.3%	2,043	971	32.2%
3900	OTHER MANUFACTURING INDUSTRIES	1,436	17,199	12,337	41.8%	6,930	4,359	38.6%
3910	SCIENTIFIC & PROFESSIONAL EQUIPMENT	295	5,322	4,528	46.0%	4,249	2,130	33.4%
3911	INDICATING, RECORDING & CONTROLLING EQ.	140	2,730	2,497	47.8%	2,561	1,322	34.0%
3912	OTHER INSTRUMENTS & RELATED PRODUCTS	71	1,581	1,083	40.7%	1,688	808	32.4%
3913	CLOCK & WATCH INDUSTRY	17	213	251	54.1%	0	0	0.0%
3914	OPHTHALMIC GOODS INDUSTRY	67	798	697	46.6%	0	0	0.0%
3920	JEWELLERY & PRECIOUS METAL IND.	196	0	0	0.0%	0	0	0.0%
3921	JEWELLERY & SILVERWARE INDUSTRY	188	1,427	1,185	45.4%	197	283	59.0%
3922	PRECIOUS METAL SECONDARY REFINING	8	0	0	0.0%	0	0	0.0%
3930	SPORTING GOODS & TOY INDUSTRIES	134	1,899	2,175	53.4%	878	718	45.0%
3931	SPORTING GOODS INDUSTRY	91	1,441	1,100	43.3%	553	400	42.0%
3932	TOYS & GAMES INDUSTRY	43	458	1,075	70.1%	325	318	49.5%
3971	SIGN & DISPLAY INDUSTRY	258	2,659	631	19.2%	406	262	39.2%
3990	OTHER MANUFACTURED PRODUCTS IND.	553	0	0	0.0%	0	0	0.0%
3991	BROOM, BRUSH & MOP INDUSTRY	23	261	429	62.2%	130	142	52.2%

Table 3 ONTARIO MANUFACTURING EMPLOYMENT BY INDUSTRY DIVISION AND SEX, 1985 page 9

SIC 1	INDUSTRY DESCRIPTION	# ESTABS	Production and Related Workers				Administration Office and Non-Manufacturing Employees			
			# MALES P.WRKS	# FEMALES P.WRKS	% F	# MALES ADMIN	# FEMALES ADMIN	% F		
3992	BUTTON, BUCKLE & CLOTH FASTENER IND.	9	209	190	47.6%	0	0	0.0%		
3993	FLOOR TILE, LINOLEUM & COATED FABRIC	7	736	71	8.8%	0	0	0.0%		
3994	MUSICAL INSTRUMENT & SOUND RECORDING	25	426	462	52.0%	229	272	54.3%		
3999	OTHER MANUFACTURED PRODUCTS M.E.C.	489	0	0	0.0%	0	0	0		

Source: Ontario Industry Data, Statistics Canada, Catalogue 31-203 and special calculations.

Table 4

ONTARIO EMPLOYMENT IN MANUFACTURING
BY SEX AND SIZE OF ESTABLISHMENT
1985

Size	# Establs.	Production and Related Workers		Administration Office and Non-Manufacturing Employees	
		Males	Females	Males	Females
4	4 200	6 498	2 036	234	173
5 - 9	2 620	11 983	4 357	474	393
10 - 19	2 583	24 686	7 968	1 677	1 199
20 - 49	2 789	54 165	19 406	8 236	4 805
50 - 99	1 554	57 449	25 443	15 923	9 206
100 - 199	985	70 313	32 634	22 276	11 771
200 - 499	628	97 853	43 051	31 051	16 481
500 - 999	143	54 847	19 215	17 121	7 484
1000+	68	119 400	15 527	32 055	10 819
Head Office, Sales Offices, etc.				36 024	16 385
Total, All Industries		497 194	169 637	165 871	78 716
				25.4	32.2

Source: Calculations from Manufacturing Industries of Canada, national and provincial areas, Statistics Canada, Cat. 31.203, Table 57. Principal Statistics by Total Employed per Establishment Canada and Provinces, 1985.

Table 5

AVERAGE SALARIES
SELECTED OFFICE OCCUPATIONS - ONTARIO
1985

	Average Salaries						Manufacturing		
	# Employees	# M	# F	All Industr.	Union	Non Union	# M	# F	Average Salaries
Accts. Clerk Jr.	4,832	556	4,246	333	386	324	410	323	1,514
Accts. Clerk Sr.	5,688	1,182	4,484	397	449	386	479	375	1,952
Bookkeeper, Sr.	2,198	550	1,647	431	468	428	507	405	792
Bookkeeper-Bill-Calculatg.									
Mach. Optr. Jr.	380	38	342	332	396	301	356	329	113
Bookkeeper-Bill-Calculatg.									
Mach. Optr. Sr.	515	69	445	381	415	369	450	371	211
Clerk, Gen. Office Jr.	8,402	790	7,533	296	342	277	314	293	1,201
Clerk, Gen. Office Int.	36,261	4,999	31,103	360	378	335	384	355	2,603
Clerk, Gen. Office Sr.	23,500	4,653	18,721	422	432	406	453	414	2,155
Computer Optr. Jr.	1,477	657	765	383	441	363	402	358	410
Computer Optr. Sr.	1,875	885	962	451	479	439	383	419	616
Cost Clerk	1,365	585	770	425	486	415	490	374	1,004
Data Entry Optr. Jr.	2,488	104	2,369	315	383	301	309	314	682
Data Entry Optr. Sr.	2,767	64	2,650	365	371	361	399	364	682
Draftsman/woman Jr.	894	655	227	387	434	370	394	362	385
Draftsman/woman Int.	1,870	1,516	327	487	520	467	492	456	743
Draftsman/woman Sr.	3,063	2,730	292	587	581	593	590	545	1,014
File Clerk	1,861	173	1,527	296	345	264	331	288	175
Office Manager	6,311	2,862	3,381	559	610	546	617	510	1,012
Order Clerk	3,348	1,114	2,224	359	413	353	415	329	2,056
Programmer, Jr.	1,787	1,028	738	491	512	486	497	483	370

Table 5 AVERAGE SALARIES SELECTED OFFICE OCCUPATIONS - ONTARIO 1965

	Average Salaries					Manufacturing		
	# Employees	# M	# F	All Industr.	Non Union	# M	# F	Average Salaries
Programmer, Sr.	2,374	1,611	698	611	611	622	580	598
Secretary, Jr.	9,847	51	9,685	361	372	358	360	389
Secretary, Sr.	15,477	107	15,180	413	414	403	413	421
Steno. Jr.	1,908	12	1,874	334	347	258	334	350
Steno. Sr.	4,302	26	4,127	372	368	366	371	430
Stock Records Clerk	2,738	1,533	1,182	391	450	428	342	402
Systems Analyst Jr.	1,878	1,264	586	654	677	663	635	618
Systems Analyst Sr.	2,462	1,903	515	741	786	751	704	689
Telephone Operator	4,422	135	4,264	306	346	332	305	312
Transcrib. Mach. Optr. Jr.	363		329	331	362		325	290
Transcrib. Mach. Optr. Sr.	991		974	354	366		353	314
Typist Jr.	2,752	32	2,667	301	337	334	299	303
Typist Sr.	4,298	35	4,175	334	343	372	332	362
Word Processing Optr.	2,896	35	2,797	360	367	367	360	373
TOTALS	167,590	31,954	133,806	13,920	14,987	13,926	13,380	14,150

Note: 1.

Number of Employees indicates the number of employees for whom wage rates were reported and does not necessarily represent total employment in that occupation.

2.

Average Wage Rate is a weighted average (wage rate X # employees receiving each rate. Sum of these products is divided by total # of Establs. reported in occupation)

Source:

1965 Wage Rates, Salaries and Hours of Labour, Ontario Labour Canada

Table 6
ADMINISTRATION, OFFICE AND NON MANUFACTURING
OCCUPATIONS BY INDUSTRY - MANUFACTURING
1987

	In Thousands				
	Mgrl/ Prof.	Mgrl/ Admin	Nat. Sci.	Clerical	Sales
Food, feed, beverage and Tobacco	17	13	4	14	6
Wood & Furnishings	7	6		4	
Paper & Allied	28	15		19	5
Primary Metal & Metal Fabricating	18	11	7	16	4
Motor Vehicle & Parts	24	14	9	16	
Machinery & Transport	13	9	4	6	
Electrical Products	33	19	13	14	
Chemical, Rubber & Petroleum	22	14	7	11	
Non-Metallic Mineral	4				
Other Mfg.	13	8		5	
TOTAL	179	109	44	105	15

Source: Labour Force Survey Special Tabs, Statistics Canada, Annual
Averages, Table XX58 (C) Employed, Occupation by Industry
1987

Table 7

ONTARIO MANUFACTURING SECTOR, PART TIME/FULL TIME
EMPLOYMENT STATUS BY AGE AND SEX
1987
(all numbers in thousands)

	Total	Full Time	Part Time	Part Time % of Total
Both Sexes				
All Ages	1 038	1 007	31	3.0
15 - 19	33	24	9	27.3
20 - 24	128	123	5	3.9
25 - 34	318	314	5	1.6
35 - 44	261	256	5	1.9
45 - 54	183	179	4	2.2
55 - 64	108	106		
65+	8	6		
Males				
All Ages	734	721	13	1.8
15 - 19	23	17	6	26.1
20 - 24	85	82		
25 - 34	221	220		
35 - 44	186	185		
45 - 54	128	128		
55 - 64	86	85		
65+	6	4		
Females				
All Ages	304	286	18	5.9
15 - 19	10	7		
20 - 24	43	41		
25 - 34	98	94	4	4.1
35 - 44	75	71	4	5.3
45 - 54	55	51		
55 - 64	22	21		
Females as % of total manufacturing				
All Ages	29.3	28.4	58.1	
15 - 19	30.3	29.2		
20 - 24	33.6	33.3		
25 - 34	30.8	29.9	80.0	
35 - 44	28.7	27.7	80.0	
45 - 54	30.0	28.5		
55 - 64	20.3	19.8		

Note : All numbers have been rounded, columns may not total.

Source: Labour Force Survey Special Tabs, Statistics Canada,
Annual Averages, Reference Number R87018A.

Table 8

COLLECTIVE BARGAINING AGREEMENTS BY INDUSTRY
MANUFACTURING* 1988

	Part-Time or Seasonal Employees Not Specifically Excluded	Only Part-Time Employees Specifically Excluded	Only Part-Time and Full-Time Specifically Covered	Both Part-Time and Full-Time Specifically Covered	Other	Total
Food, Beverage	255	142	3	29	21	450
Tobacco Products	8				4	12
Rubber, Plastics	37	8				45
Wood	83	34				117
Furniture, Fixtures	69	29		1		99
Paper	173	34		2		209
Printing, Publishing	185	43	9	20	3	260
Primary Metals	117	22		1	1	141
Fabricated Metals	379	87	1	1		468
Machinery	153	36				189
Transport, Equip	193	41		4		238
Electrical Products	160	29		2		191
Non-Metal Minerals	214	29		1		244
Petroleum, Coal	10	3				13
Chemicals	115	41	1	2		159
Other Manufacturing	<u>120</u>	<u>57</u>	<u>—</u>	<u>3</u>	<u>—</u>	<u>180</u>
Totals	2 271	635	14	66	29	3 015

Note: Excludes leather, textile, knitting mills and clothing manufacturers

Source: Cross tabulation - Collective Bargaining Agreements with part-time and seasonal employee coverage, (special run) July 1988. Ontario Ministry of Labour.

Table 9

CURRENT COLLECTIVE AGREEMENTS FOR FULL-TIME AND PART-TIME EMPLOYEES
MANUFACTURING - 1988

	Full-Time			Part Time		
	# Agreements	Total Employ's	F ^a	# Agreements	Total	
Food, Beverages						
Slaughtering & Meat Processors	10	754	110	1	366	1
Poultry Processors	5	1 477	711		316	
Dairy Factories	32	1 157	232		802	
Process Cheese Manufacturers	1	150		1		15
Fish Products	1	13				
Fruit & Vegetable Canners	9	620	203		256	
Feed Manufacturers	2	165	29		136	
Breakfast Cereal Manufacturers	1	47		1		6
Biscuit Manufacturers	5	1 080	569		511	
Bakeries	41	3 020	573		2 152	
Confectionery Manufacturers	4	878	480		398	
Sugar Refiners	1	90			90	
Miscellaneous Food Industries	16	1 171	363		536	
Soft Drink Manufacturers	9	275	23		93	
Wineries	4	163	32		131	
Rubber, Plastics						
Other Rubber Industries	8	1 271	565		617	
Wood						
Sawmills	8	745	5		716	
Veneer and Plywood Mills	4	281	120		146	
Sash & Door & Planing Mills	10	1 551	102		658	
Wooden Box Factories	7	133	21		75	
Coffin and Casket Industries	1	36			36	
Miscellaneous Wood Industries	4	181	20		128	
Furniture, Fixtures						
Household Furniture Industries	15	1 377	429		876	
Office Furniture Industries	6	509	40		81	
Other Furniture Industries	7	491	52		189	
Electric Lamp & Shade Industries	1	55				

Table 9 CURRENT COLLECTIVE AGREEMENTS FOR FULL-TIME AND PART-TIME EMPLOYEES MANUFACTURING - 1988 page 2

	Full-Time			Part Time		
	# Agreements	Total Employ's	F* M*	# Agreements	Total	
Paper						
Pulp and Paper	1	113	37		76	
Asphalt Roofing Manufacturing	4	238			238	
Paper Box & Bag Manufacturing	16	892	203		431	
Other Paper Converters	13	1 198	509		653	
Printing and Publishing						
Commercial Printing	12	492	88	1	184	26
Engraving, Stereotyping & Allied	8	486	52		82	
Publishing Only	1	19	4		15	
Printing and Publishing	22	767	177	8	288	514
Primary Metals						
Iron and Steel Mills	5	1 142	118		1 024	
Iron Foundries	2	47			17	
Aluminum Rolling, Casting & Extr.	5	775	150		625	
Copper and Alloy Rolling, Casting	3	224			224	
Metal Rolling, Casting & Extr.	7	556	55		417	
Fabricated Metals						
Boiler and Plate Works	6	507	6		482	
Fabric, Structural Metal Industries	8	300			265	
Ornam. & Architectural Metal	7	361	61	1	279	7
Metal Stamp, Pressing & Coat	20	1 836	342		1 177	
Wire and Wire Products Manufacturing	5	513	21		412	
Hardware, Tool & Cutlery Manufacturing	10	721	250		398	
Heating Equipment Manufacturing	6	394	191		133	
Machine Shops	6	181	7		137	
Miscellaneous Metal Fabricating	16	1 308	336		936	
Machinery						
Agricultural Implement Industries	1	68			68	
Miscellaneous Machinery & Equipment	30	1 131	129		792	
Comm. Refrig. & Air	2	142			125	
Office & Store Machinery Manufacturers	3	163	69		94	

	Full-Time			Part Time		
	# Agreements	Total Employ's	F* M*	# Agreements	Total	
Transport Equipment						
Aircraft and Parts Manufacturers	8	1 122	115		982	
Truck Body and Trailer Manufacturers	4	494	11		353	
Motor Vehicle Parts & Acces.	25	3 438	1 723		1 113	
Railroad Rolling Stock Industry	1	28	21		7	
Shipbuilding and Repair	1	21	15		6	
Boatbuilding and Repair	2	450	21		429	
Electrical Products						
Manufacturers of Small Appliances	2	485	183		302	
Manufacturers of Major Appliances	1	450				
Manufacturers of Household Radio & T.V.	3	1 151	397		754	
Communications Equipment Manufacturers	6	470	200		270	
Manufacturers of Electrical Industrial Equip.	12	1 247	541		651	
Electric Wire and Cable	1	86			86	
Other Electrical Products	4	425	89		336	
Non Metallic Minerals						
Concrete Products Manufacturers	6	79			56	
Ready-Mix Concrete Manufacturers	2	22				
Clay Products	2	302	170		132	
Stone Products	1	5			5	
Mineral Wool Manufacturers	1	69	9		60	
Asbestos Product Manufacturers	1	11	9		2	
Glass and Glass Products	7	727	214		494	
Abrasives Manufacturers	4	243	93		140	
Other Non-Metallic Mineral Products	4	112			74	
Petroleum, Coal						
Petroleum Refineries	3	69			69	

	Full-Time			Part Time		
	# Agreements	Total Employ's	F* M*	# Agreements	Total	
Chemicals						
Explosives & Ammunition Manufacturers	1	6			6	
Plastic and Synthetic Resin	3	102			62	
Pharmaceuticals and Medicine	5	574	244	1	284	2
Paint and Varnish Manufacturers	5	157	2		135	
Soap and Cleaning Compounds	9	431	94		337	
Toilet Preparations	2	122	76		46	
Industrial Chemicals	3	172			172	
Other Chemical Industries	13	529	62		356	
Other Manufacturers						
Scientific and Prof. Equip.	13	1 518	246		1 266	
Jewellery & Silverware	3	416	286		130	
Broom, Brush, Mop Industries	2	55	7		21	
Plastic Fabricators M.E.S.	31	2 595	1 207		1 090	
Sporting Goods and Toy Industries	3	171	105		66	
Signs and Display Industries	3	149	27		50	
Miscellaneous Manufacturers Industries	2	174	14		30	
Total	630	50,941				

Note: * Male/Female breakdown provided where available.

Source: Current Agreements for Full-Time and Part-Time Employees, Ontario Ministry of Labour, July 1988 (special run).

Table 10

MANUFACTURING LABOUR FORCE
BY CULTURAL CHARACTERISTICS
ONTARIO - 1981

	Male	Female
Total	751 440	304 125
Place of Birth		
- Canada	66.9	61.6
- U.S.A.	.9	.9
- United Kingdom	6.9	6.0
- Southern Europe	9.7	15.5
- Asia	3.8	5.0
Ethnic Origin		
- British	50.0	48.3
- French	7.4	5.6
- German	5.6	4.9
- Italian	6.7	9.4
- Ukranian	2.1	1.6
- Dutch	2.4	1.7
- Native People	.6	.6
- Other	18.3	21.8
- British & French	1.7	1.6
- British & Other	3.0	3.0
- French & Other	.4	.4
- Other Multiple Origin	.1	1.1

Source: Statistics Canada, Cat. 92-922, 1981 and special calculations.

Table 11A

ONTARIO MANUFACTURING INDUSTRIES, EMPLOYMENT AND WAGES,
SPECIFIED YEARS, 1961 - 1985

Year	Estabs.	Production and related workers		Total employees	
	Number	Number	Wages \$'000	Number ¹	Salaries and wages ¹ \$'000
1961	12 419	433 059	1 739 097	638 757	2 859 652
1962	12 585	456 026	1 908 474	662 533	3 078 549
1963	12 489	478 370	2 080 555	690 470	3 335 582
1964	12 781	509 758	2 320 944	728 936	3 666 810
1965	12 766	543 501	2 615 719	774 428	4 100 212
1966	12 986	578 559	2 912 675	820 387	4 571 684
1967	13 076	571 106	3 030 681	818 227	4 822 183
1968	12 932	563 777	3 238 023	810 724	5 171 178
1969	12 971	574 694	3 549 819	825 462	5 660 929
1970	12 736	562 858	3 711 437	806 638	5 942 507
1971	12 740	563 864	4 020 624	800 047	6 326 544
1972	12 589	583 932	4 507 383	821 614	6 989 621
1973	12 397	616 935	5 186 725	861 767	7 947 955
1974	12 662	632 850	5 914 093	883 730	9 074 122
1975	12 245	612 480	6 313 568	849 905	9 669 006
1976	11 880	617 479	7 270 230	853 812	10 986 121
1977	11 414	605 796	7 899 419	843 378	11 982 076
1978	13 079	633 469	8 830 051	880 776	13 369 298
1979	14 104	660 652	10 019 377	913 612	15 100 327
1980	14 454	648 792	10 697 565	909 991	16 455 096
1981	14 553	643 312	11 843 312	912 060	18 470 506
1982	14 822	589 649	11 819 718	848 971	18 966 723
1982 ²	14 197	587 462	11 793 768	846 683	18 944 794
1983	14 763	588 475	12 807 352	838 673	20 278 284
1984	15 263	627 518	14 669 952	880 928	22 646 623
1985	15 570	666 831	16 361 666	911 418	24 616 891

¹ "Number" and "Salaries and wages" under total employees are not directly comparable with earlier statistics under the same headings.

² Data for 1982 restated to the 1980 revision of the Standard Industrial Classification.

Source: Extracted from Statistics Canada, Catalogue 31-203, 1985, Table 29

PRINCIPAL STATS BY INDUSTRY GROUP, FOR MANUFACTURING
ONTARIO, 1971

Industry	# Estabs.	Production and Related Workers		Administration Office and Non-Manufacturing Employees			
		Males	Females	% F	Males	Females	% F
Food and Beverage Industries	1 829	36 645	15 442	29.6	23 618	7 198	23.4
Tobacco Products Industries	13	1 585	959	37.7	658	203	23.6
Rubber & Plastics Products Inds.	335	14 812	6 724	31.2	5 943	2 030	25.5
Leather Industries	180	4 989	6 220	55.5	1 028	623	5.3
Textile Industries	382	12 266	10 975	47.2	3 739	1 670	30.9
Knitting Mills	96	1 817	4 560	71.5	553	517	48.3
Clothing Industries	457	4 466	15 275	77.4	3 795	3 093	44.9
Wood Industries	733	12 492	1 464	10.5	2 233	646	22.4
Furniture and Fixtures Industries	872	12 916	3 128	19.5	2 577	1 445	35.9
Paper and Allied Industries	289	28 433	4 547	13.8	8 051	2 836	26.4
Printing, Publishing & Allied Inds.	1 574	18 355	5 762	23.9	11 407	7 491	39.6
Primary Metal Industries	204	53 751	983	1.8	12 904	2 651	17.4
Metal Fabricating Industries	2 157	52 814	6 639	11.2	14 009	5 042	26.5
Machinery Industries	534	30 612	2 148	6.6	12 831	3 666	22.2
Transportation Equipment Industries	389	68 125	6 867	9.2	19 818	4 201	17.5
Electrical Products Industries	471	31 058	19 628	38.7	21 565	7 220	25.1
Non-Metallic Mineral Products Inds.	537	18 297	1 411	7.2	5 097	1 605	23.9
Petroleum and Coal Products Inds.	32	1 976	3	0.2	4 374	2 045	31.9
Chemical & Chemical Products Inds.	575	17 184	4 402	20.4	14 690	5 542	27.4
Miscellaneous Manufacturing Inds.	1 081	14 497	9 637	39.9	7 455	4 106	35.5
Total, All Industries	12 740	437 090	126 774	22.5	210 345	63 830	23.2

Table 118

PRINCIPAL STATS BY INDUSTRY GROUP, FOR MANUFACTURING ONTARIO, 1980

page 2

Industries	# Estabs.	Production and Related Workers		Administration Office and Non-Manufacturing Employee	
		Males	Females	% F	% F
Food and Beverage Industries	1 520	40 544	17 669	30.3	30.0
Tobacco Products Industries	11	1 382	768	35.7	28.5
Rubber & Plastics Products Inds.	530	19 185	9 057	32.1	27.8
Leather Industries	180	4 052	7 237	64.1	41.5
Textile Industries	400	12 454	12 220	49.5	34.7
Knitting Mills	90	1 788	4 602	72.0	47.0
Clothing Industries	453	3 839	17 517	82.0	53.6
Wood Industries	778	15 837	2 198	12.2	26.9
Furniture and Fixtures Industries	957	16 132	5 137	24.2	37.0
Paper and Allied Industries	349	31 435	5 649	15.2	29.1
Printing, Publishing & Allied Inds.	1 835	21 402	8 846	29.2	46.3
Primary Metal Industries	241	58 444	2 246	3.7	20.4
Metal Fabricating Industries	2 642	60 578	8 863	12.8	29.1
Machinery Industries	835	40 015	3 719	8.5	26.7
Transportation Equipment Industries	539	76 774	8 832	10.3	21.9
Electrical Products Industries	619	33 235	20 587	38.3	30.0
Non-Metallic Mineral Products Inds.	585	17 336	2 144	11.0	27.2
Petroleum and Coal Products Inds.	41	3 053	96	3.0	33.7
Chemical & Chemical Products Inds.	613	20 248	5 506	21.4	29.9
Miscellaneous Manufacturing Inds.	1 236	16 111	12 028	42.7	37.8
Total, All Industries	14 454	493 841	154 921	23.9	30.8

Table 11B

PRINCIPAL STATS BY INDUSTRY GROUP, FOR MANUFACTURING ONTARIO, 1985

page 3

Industries	# Estabs.	Production and Related Workers		Administration Office and Non-Manufacturing Employees			
		Males	Females	% F	Males	Females	% F
Food and Industries	1 054	33 492	16 743	33.3	15 823	8 183	34.1
Beverage Industries	100	5 657	530	8.6	4 055	1 533	27.4
Tobacco Products Industries	12	986	535	35.2	821	348	29.8
Rubber Products Inds.	78	8 805	1 601	15.4	3 748	1 148	23.4
Plastic Products	546	11 382	6 794	37.4	2 763	1 628	37.1
Leather Products & Allied Products	153	4 501	7 328	61.9	1 092	842	43.5
Primary Textile Industries	72	5 396	2 364	30.5	2 235	925	29.3
Textile Products	338	5 523	5 888	51.6	1 599	1 206	43.0
Clothing Industries	632	5 664	23 802	80.8	1 950	2 454	55.7
Wood Industries	851	17 385	2 392	12.1	2 575	855	24.9
Furniture and Fixtures Industries	714	18 119	5 371	22.4	2 615	1 613	38.2
Paper and Allied Industries	317	27 209	4 042	12.9	6 910	2 829	29.0
Printing, Publishing & Allied Inds.	2 414	23 974	12 270	33.9	11 700	11 679	49.9
Primary Metal Industries	228	47 782	1 921	3.9	11 468	2 869	19.5
Metal Fabricating Industries	2 967	57 532	9 107	13.7	10 902	4 709	30.2
Machinery Industries	918	28 408	3 315	10.4	9 336	3 335	26.3
Transportation Equipment Industries	711	103 912	22 788	18.0	22 669	6 783	23.0
Electrical Products Industries	793	34 512	22 385	39.3	21 678	9 091	29.5
Non-Metallic Mineral Products Inds.	566	17 196	1 905	11.1	4 365	1 752	28.6
Petroleum and Coal Products Inds.	43	2 486	72	2.8	4 340	2 393	35.5
Chemical & Chemical Products Inds.	627	20 274	6 147	23.4	16 297	8 182	33.4
Miscellaneous Manufacturing Inds.	1 436	17 199	12 337	41.8	6 930	4 359	38.6

Table 118

PRINCIPAL STATS BY INDUSTRY GROUP, FOR MANUFACTURING ONTARIO, 1985

page 4

Industries	# Estabs.	Production and Related Workers		Administration Office and Non-Manufacturing Employees	
		Males	Females	% F	% F
Total, All Industries	15 570	497 194	169 637	25.4	32.2

Source: Calculations from Manufacturing Industries of Canada, national and provincial areas, Statistics Canada, Catalogue 31-203.

Table 12

ONTARIO AND CANADIAN IMPORTS FROM ALL COUNTRIES
BY MANUFACTURING INDUSTRIES, 1981 AND 1987

CANADIAN \$

1980 SIC CODE	INDUSTRY	ONTARIO IMPORTS 1981	ONTARIO IMPORTS 1987	% INCREASE IN REAL DOLLARS	ONTARIO IMPORTS 1981 CONSTANT \$	% INCREASE 1981 CONSTANT DOLLARS
1011	MEAT & MEAT PRODUCTS IND. (EXCEPT POULTRY)	163,898,311	278,650,709	70.01%	253,088,746	54.42%
1012	POULTRY PRODUCTS INDUSTRY	37,664,354	39,142,704	3.93%	35,551,956	-5.61%
1021	FISH PRODUCTS INDUSTRY	57,767,528	137,287,053	137.65%	124,693,054	115.85%
1031	CANNED & PRESERVED FRUIT & VEGETABLE INDUSTRY	162,791,862	231,794,338	42.39%	210,530,734	29.33%
1032	FROZEN FRUIT & VEGETABLE INDUSTRY	83,660,148	130,505,780	56.00%	118,533,860	41.68%
1041	FLUID MILK INDUSTRY	87,585	287,199	227.91%	260,853	197.83%
1049	OTHER DAIRY PRODUCTS INDUSTRIES	44,341,996	70,444,637	58.87%	63,982,413	44.29%
1051	CEREAL GRAIN FLOUR INDUSTRY	6,899,985	6,023,087	-12.71%	5,470,560	-20.72%
1052	PREPARED FLOUR MIXES & PREPARED CEREAL FOODS INDUSTRY	15,526,655	40,431,061	160.40%	36,722,126	136.51%
1053	FEED INDUSTRY	24,428,149	64,001,762	162.00%	58,130,574	137.97%
1061	VEGETABLE OIL MILLS (EXCEPT CORN OIL)	90,540,424	119,558,436	32.05%	108,590,768	19.94%
1071	BISCUIT INDUSTRY	14,590,156	34,356,839	135.48%	31,205,122	113.88%
1072	BREAD & OTHER BAKERY PRODUCTS INDUSTRY	9,455,555	24,889,654	163.23%	22,606,407	139.08%
1081	CANE AND BEET SUGAR INDUSTRY	154,501,327	96,961,281	-37.24%	88,066,559	-43.00%
1082	CHEWING GUM INDUSTRY	1,035,654	1,776,277	71.51%	1,613,331	55.78%
1083	SUGAR & CHOCOLATE CONFECTIONERY INDUSTRY	80,698,767	175,738,503	117.77%	159,617,169	97.79%
1091	TEA & COFFEE INDUSTRY	118,731,296	168,590,272	41.99%	153,124,679	28.97%
1092	DRY PASTA PRODUCTS INDUSTRY	4,794,851	10,278,123	114.36%	9,335,262	94.69%
1093	POTATO CHIP, PRETZEL & POPCORN INDUSTRY	3,042,569	6,718,733	120.82%	6,102,391	100.57%
1094	MALT & MALT FLOUR INDUSTRY	107,280	211,941	97.56%	192,499	79.44%
1099	OTHER FOOD PRODUCTS INDUSTRIES N.E.C.	272,573,562	417,121,452	53.03%	378,856,905	38.99%
1111	SOFT DRINK INDUSTRY	6,702,996	40,214,026	499.94%	36,525,001	444.91%
1121	DISTILLERY PRODUCTS INDUSTRY	47,770,854	68,064,997	42.48%	61,821,069	29.41%
1131	BREWERY PRODUCTS INDUSTRY	3,981,585	7,945,621	99.56%	7,216,731	81.25%
1141	WINE INDUSTRY	46,968,673	117,531,393	150.23%	106,749,676	127.28%
1211	LEAD TOBACCO INDUSTRY	5,245,415	2,973,728	-43.31%	2,700,934	-48.51%
1221	TOBACCO PRODUCTS INDUSTRY	1,964,670	5,547,704	182.37%	5,038,787	156.47%
1511	TIRE AND TUBE INDUSTRY	151,750,128	313,449,436	106.56%	284,695,219	87.61%
1521	RUBBER HOSE & BELTING INDUSTRY	22,301,190	35,715,698	60.15%	32,439,326	45.46%
1599	OTHER RUBBER PRODUCTS INDUSTRIES	114,342,652	213,976,779	87.14%	194,347,665	69.97%
1611	FOAMED & EXPANDED PLASTIC PRODUCTS INDUSTRY	13,810,499	32,095,645	132.40%	29,151,358	111.08%
1621	PLASTIC PIPE AND PIPE FITTINGS INDUSTRY	10,566,742	17,777,622	68.24%	16,146,796	52.81%
1631	PLASTIC FILM & SHEETING INDUSTRY	193,800,533	392,363,064	102.46%	356,369,722	83.88%

ONTARIO AND CANADIAN IMPORTS FROM ALL COUNTRIES
BY MANUFACTURING INDUSTRIES, 1981 AND 1987

1691	PLASTIC BAG INDUSTRY	4,635,598	15,744,146	239.64%	14,299,860	208.48%
1699	OTHER PLASTIC PRODUCTS INDUSTRIES M.E.C.	232,983,615	466,979,095	100.45%	424,140,867	82.06%
1711	LEATHER TANNERIES	45,235,803	98,838,289	118.50%	89,771,380	98.45%
1712	FOOTWEAR INDUSTRY	190,577,342	392,563,360	105.99%	356,551,644	87.09%
1713	LUGGAGE, PURSE & HANDBAG INDUSTRIES	32,399,509	57,469,736	77.38%	52,197,762	61.11%
1719	OTHER LEATHER & ALLIED PRODUCTS INDUSTRIES	15,323,809	22,693,710	48.09%	20,611,907	34.51%
1811	HAN-MADE FIBRE & FILAMENT YARN INDUSTRY	116,464,873	208,370,509	78.91%	189,255,685	62.50%
1821	WOOL YARN & WOVEN CLOTH INDUSTRY	32,441,550	51,638,673	59.17%	46,901,610	44.57%
1829	OTHER SPUN YARN & WOVEN CLOTH INDUSTRIES	225,437,953	334,349,678	48.31%	303,678,182	34.71%
1831	BROAD KNITTED FABRIC INDUSTRY	39,002,715	74,325,335	90.56%	67,507,172	73.08%
1911	NATURAL FIBRES PROCESSING & FELT PROD. IND.	18,892,023	21,020,000	11.29%	19,095,767	1.08%
1921	CARPET, MAT & RUG INDUSTRY	41,975,352	85,566,105	103.86%	77,719,514	85.16%
1931	CANVAS & RELATED PRODUCTS INDUSTRY	7,147,363	18,184,944	154.43%	16,516,752	131.09%
1991	NARROW FABRIC INDUSTRY	20,877,872	31,211,068	49.49%	28,347,927	35.78%
1993	HOUSEHOLD PRODUCTS OF TEXTILE MATERIALS INDUSTRY	61,881,180	69,688,958	12.62%	63,296,056	2.29%
1994	HYGIENE PRODUCTS OF TEXTILE MATERIALS INDUSTRY	5,221,379	6,689,513	28.12%	6,075,852	16.36%
1995	TIRE CORD FABRIC INDUSTRY	3,145,218	6,017,876	91.33%	5,465,827	73.78%
1999	OTHER TEXTILE PRODUCTS INDUSTRIES M.E.C.	84,151,806	129,076,738	53.39%	117,235,911	39.31%
2431	MEN'S & BOYS' COAT INDUSTRY	2,418,283	9,674,010	300.04%	8,786,567	263.34%
2432	MEN'S & BOYS' SUIT & JACKET INDUSTRY	14,834,090	50,114,353	237.83%	45,517,124	206.84%
2433	MEN'S & BOYS' PANTS INDUSTRY	10,614,659	45,288,707	326.66%	41,134,157	287.52%
2434	MEN'S & BOYS' SHIRT & UNDERWEAR INDUSTRY	33,310,970	108,044,538	224.35%	98,133,095	194.60%
2441	WOMEN'S COAT & JACKET INDUSTRY	6,910,055	22,037,709	218.92%	20,016,084	189.67%
2442	WOMEN'S SPORTSWEAR INDUSTRY	27,470,108	101,307,065	268.79%	92,013,683	234.96%
2443	WOMEN'S DRESS INDUSTRY	17,062,226	24,106,344	41.28%	21,894,954	28.32%
2444	WOMEN'S BLOUSE & SHIRT INDUSTRY	29,177,292	55,757,408	91.10%	50,642,514	73.57%
2451	CHILDREN'S CLOTHING INDUSTRY	11,721,255	33,554,525	186.27%	30,476,408	160.01%
2491	SWEATER INDUSTRY	33,015,692	122,093,554	269.80%	110,893,328	235.88%
2492	OCCUPATIONAL CLOTHING INDUSTRY	4,465,880	9,892,782	121.52%	8,985,270	101.20%
2493	GLOVE INDUSTRY	18,974,405	31,556,322	66.31%	28,661,510	51.05%
2494	HOSIERY INDUSTRY	10,445,679	15,150,962	45.05%	13,761,092	31.74%
2495	FUR GOODS INDUSTRY	2,088,294	6,110,477	192.61%	5,549,934	165.76%
2496	FOUNDATION GARMENT INDUSTRY	2,470,000	3,115,828	26.15%	2,829,998	14.57%
2499	OTHER CLOTHING & APPAREL INDUSTRIES M.E.C.	25,751,729	71,260,068	176.72%	64,723,041	151.33%
2511	SHINGLE & SHAKE INDUSTRY	191,964	195,999	2.10%	178,019	-7.26%
2512	SAWMILL & PLANING MILL PRODUCTS INDUSTRY (EXCEPT SHINGLES &	102,003,833	226,266,026	121.82%	205,509,560	101.47%
2521	HARWOOD VENEER & PLYWOOD INDUSTRY	17,371,532	42,287,333	143.43%	38,408,114	121.10%
2522	SOFTWOOD VENEER & PLYWOOD INDUSTRY	8,945,949	26,097,506	191.72%	23,703,457	164.96%
2541	PREFABRICATED WOODEN BUILDINGS INDUSTRY	523,962	1,834,296	250.08%	1,666,027	217.97%
2542	WOODEN KITCHEN CABINET & BATHROOM VANITY IND.	1,318,353	9,283,041	604.14%	8,431,463	539.55%
2543	WOODEN DOOR & WINDOW INDUSTRY	17,028,599	32,435,096	90.47%	29,459,669	73.00%

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2549	OTHER MILLWORK INDUSTRIES	8,031,901	43,957,254	44.7.28%	39,924,845	397.08%
2561	WOODEN BOX & PALLET INDUSTRY	5,675,874	7,568,263	33.34%	6,873,990	21.11%
2581	COFFIN & CASKET INDUSTRY	4,314,960	9,699,789	124.79%	8,809,981	104.17%
2592	PARTICLE BOARD INDUSTRY	1,923,231	5,429,825	182.33%	4,931,721	156.43%
2599	OTHER WOOD INDUSTRIES M.E.C.	33,056,943	42,855,074	29.64%	38,923,773	17.75%
2611	WOODEN HOUSEHOLD FURNITURE INDUSTRY	62,325,318	100,084,838	60.58%	90,903,577	45.85%
2612	UPHOLSTERED HOUSEHOLD FURNITURE INDUSTRY	7,486,702	27,496,241	267.27%	24,973,879	233.58%
2619	OTHER HOUSEHOLD FURNITURE INDUSTRIES	26,361,001	60,550,152	129.70%	54,995,597	108.62%
2641	METAL OFFICE FURNITURE INDUSTRY	4,590,939	6,474,271	41.02%	5,880,355	28.09%
2649	OTHER OFFICE FURNITURE INDUSTRIES	18,363,773	25,897,092	41.02%	23,521,428	28.09%
2691	BED SPRING & MATTRESS INDUSTRY	1,903,934	4,291,433	125.40%	3,897,759	104.72%
2692	HOTEL, RESTAURANT & INSTITUTIONAL FURNITURE	20,099,369	33,826,584	68.30%	30,723,510	52.86%
2699	OTHER FURNITURE & FIXTURE INDUSTRIES M.E.C.	21,135,432	70,856,927	235.25%	64,356,882	204.50%
2711	PULP INDUSTRY	52,764,825	57,694,504	9.34%	52,401,911	-0.69%
2712	NEWSPRINT INDUSTRY	13,382,853	29,788,669	122.59%	27,056,012	102.17%
2713	PAPERBOARD INDUSTRY	33,676,244	104,217,862	209.47%	94,657,459	181.08%
2714	BUILDING BOARD INDUSTRY	11,430,695	42,918,705	275.47%	38,981,567	241.03%
2719	OTHER PAPER INDUSTRIES	143,649,581	279,247,563	94.39%	253,630,847	76.56%
2721	ASPHALT ROOFING INDUSTRY	1,623,491	3,194,120	96.74%	2,901,108	78.70%
2731	FOLDING CARTON & SET-UP BOX INDUSTRY	30,239,019	51,461,447	70.18%	46,740,642	54.57%
2732	CORRUGATED BOX INDUSTRY	4,320,732	10,083,872	133.38%	9,158,830	111.97%
2733	PAPER BAG INDUSTRY	2,567,158	5,115,998	99.29%	4,646,683	81.00%
2791	COATED & TREATED PAPER INDUSTRY	68,786,119	161,834,235	135.27%	146,988,406	113.69%
2792	STATIONERY PAPER PRODUCTS INDUSTRY	28,424,176	48,447,327	70.44%	44,003,022	54.81%
2793	PAPER CONSUMER PRODUCTS INDUSTRY	8,141,153	18,332,543	125.18%	16,650,811	104.53%
2799	OTHER CONVERTED PAPER PRODUCTS INDUSTRIES M.E.C.	29,910,480	45,669,466	52.69%	41,479,987	38.68%
2811	BUSINESS FORMS PRINTING INDUSTRY	7,717,191	13,650,992	76.89%	12,398,721	60.66%
2819	OTHER COMMERCIAL PRINTING INDUSTRIES	149,871,553	241,884,196	61.39%	219,695,001	46.59%
2821	PLATEMAKING, TYPESETTING & BINDERY INDUSTRY	19,669,067	29,567,565	50.33%	26,855,191	36.54%
2831	BOOK PUBLISHING INDUSTRY	354,846,232	484,724,082	36.60%	440,258,022	24.07%
2839	OTHER PUBLISHING INDUSTRIES	182,424,368	315,158,504	72.76%	286,247,506	56.91%
2911	FERRO-ALLOYS INDUSTRY	81,124,862	80,966,288	-0.20%	73,538,863	-9.35%
2912	STEEL FOUNDRIES	12,169,661	16,079,365	32.13%	14,604,328	20.01%
2919	OTHER PRIMARY STEEL INDUSTRIES	819,153,599	766,785,913	-6.39%	696,444,971	-14.98%
2921	STEEL PIPE & TUBE INDUSTRY	127,159,280	117,573,196	-7.54%	106,787,644	-16.02%
2941	IRON FOUNDRIES	104,852,939	121,376,083	15.76%	110,241,674	5.14%
2951	PRIMARY PRODUCTION OF ALUMINUM ⁸ INDUSTRY	18,169,449	74,110,583	307.89%	67,312,064	270.47%
2959	OTHER PRIMARY SMELTING & REFINING OF NON-FERROUS METAL	1,365,273,804	1,181,911,035	-13.43%	1,073,488,678	-21.37%
2961	ALUMINUM ROLLING, CASTING & EXTRUDING INDUSTRY	318,808,385	651,401,132	104.32%	591,644,988	85.58%
2971	COPPER & COPPER ALLOY ROLLING, CASTING & EXTRUDING	57,491,340	122,943,311	113.85%	111,665,133	94.23%
2999	OTHER ROLLED, CAST & EXTRUDED NON-FERROUS METAL PROD.	70,528,856	78,633,943	11.49%	77,420,475	1.26%

ONTARIO AND CANADIAN IMPORTS FROM ALL COUNTRIES
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3011	POWER BOILER & HEAT EXCHANGER INDUSTRY	30,515,994	28,990,048	-5.00%	26,330,652	-13.72%
3021	METAL TANKS (HEAVY GAUGE) INDUSTRY	14,666,217	17,643,182	20.30%	16,026,688	9.26%
3022	PLATE WORK INDUSTRY	16,849,818	6,546,355	-61.15%	5,945,827	-64.71%
3029	OTHER FABRICATED STRUCTURAL METAL PROD. IND.	6,507,093	11,733,784	80.32%	10,657,388	63.78%
3031	METAL DOOR & WINDOW INDUSTRY	4,685,067	6,336,706	35.25%	5,755,410	22.85%
3032	PREFABRICATED PORTABLE METAL BUILDINGS INDUSTRY	2,969,137	10,394,353	250.08%	9,440,829	217.97%
3039	OTH. ORNAMENTAL & ARCHITECTURAL METAL PROD. IND.	7,952,992	16,210,488	103.83%	14,723,422	85.13%
3042	METAL CLOSURE & CONTAINER INDUSTRY	58,911,361	134,955,233	129.08%	122,575,144	108.07%
3049	OTHER STAMPED & PRESSED METAL PRODUCTS INDUSTRIES	228,404,939	150,986,265	-33.90%	137,135,572	-39.96%
3051	UPHOLSTERY & COIL SPRING INDUSTRY	2,142,492	5,606,760	161.69%	5,092,425	137.69%
3052	WIRE & WIRE ROPE INDUSTRY	36,320,019	58,010,863	59.72%	52,689,249	45.07%
3053	INDUSTRIAL FASTENER INDUSTRY	171,222,360	271,642,464	58.65%	246,723,401	44.10%
3059	OTHER WIRE PRODUCTS INDUSTRIES	92,186,397	160,993,427	74.64%	146,224,729	58.62%
3061	BASIC HARDWARE INDUSTRY	106,860,092	205,746,097	92.54%	186,872,023	74.88%
3062	METAL DIES, MOULDS & PATTERNS INDUSTRY	36,403,768	126,017,697	246.17%	114,457,490	214.41%
3063	HAND TOOL & IMPLEMENT INDUSTRY	150,672,955	186,392,242	23.71%	169,293,589	12.36%
3069	OTHER HARDWARE & CUTLERY INDUSTRIES	140,266,377	188,525,289	34.41%	171,230,962	22.08%
3071	HEATING EQUIPMENT INDUSTRY	24,478,710	59,932,184	144.83%	54,434,318	122.37%
3091	METAL PLUMBING FIXTURES & FITTINGS INDUSTRIES	50,757,195	116,097,421	128.73%	105,447,249	107.75%
3092	METAL VALVE INDUSTRY	109,382,158	139,871,519	27.87%	127,040,435	16.14%
3099	OTHER METAL FABRICATING INDUSTRIES M.E.C	270,644,106	388,778,209	43.65%	353,113,723	30.47%
3111	AGRICULTURAL IMPLEMENT INDUSTRY	658,124,100	561,921,228	-14.62%	510,373,504	-22.45%
3121	COMMERCIAL REFRIGERATION & AIR CONDITIONING EQP.	186,806,419	343,312,182	83.78%	311,818,512	66.92%
3191	COMPRESSOR, PUMP & INDUSTRIAL FAN INDUSTRY	158,760,231	209,822,156	32.16%	190,574,165	20.04%
3192	CONSTRUCTION & MINING MACHINERY & MATERIALS HDLNG EQP.	804,271,570	1,514,266,514	88.28%	1,375,355,599	71.01%
3193	SAWMILL & WOODWORKING MACHINERY INDUSTRY	53,511,864	106,002,214	98.09%	96,278,124	79.92%
3194	TURBINE & MECHANICAL POWER TRANSMISSION EQP.	342,993,446	306,961,862	-10.51%	278,802,781	-18.71%
3199	OTHER MACHINERY & EQUIPMENT INDUSTRIES M.E.C.	2,295,461,386	3,657,024,417	59.32%	3,321,548,063	44.70%
3211	AIRCRAFT & AIRCRAFT PARTS INDUSTRY	607,558,446	905,978,119	49.12%	822,868,410	35.44%
3231	MOTOR VEHICLE INDUSTRY	4,078,958,942	10,411,619,974	155.25%	9,456,512,238	131.84%
3241	TRUCK & BUS BODY INDUSTRY	8,934,144	50,369,707	463.79%	45,749,053	412.07%
3242	COMMERCIAL TRAILER INDUSTRY	13,877,869	32,790,229	136.28%	29,782,224	114.60%
3243	NON-COMMERCIAL TRAILER INDUSTRY	6,979,635	22,213,396	218.26%	20,175,655	189.06%
3244	MOBILE HOME INDUSTRY	731,971	2,544,407	247.61%	2,310,996	215.72%
3251	MOTOR VEHICLE ENGINE & ENGINE PARTS INDUSTRY	1,588,787,017	3,211,465,434	102.13%	2,916,862,338	83.59%
3252	MOTOR VEHICLE WIRING ASSEMBLIES INDUSTRY	143,157,191	460,229,476	221.49%	418,010,423	191.99%
3253	MOTOR VEHICLES STAMPINGS INDUSTRY	946,436,613	1,949,934,118	106.03%	1,771,057,328	87.13%
3254	MOTOR VEHICLE STEERING & SUSPENSION PARTS IND.	630,957,737	1,299,956,073	106.03%	1,180,704,880	87.13%
3255	MOTOR VEHICLE WHEEL & BRAKE INDUSTRY	252,383,082	519,982,417	106.03%	472,281,941	87.13%
3256	PLASTIC PARTS & ACCESSORIES FOR MOTOR VEHICLES IND.	63,095,757	129,995,588	106.03%	118,070,470	87.13%
3257	MOTOR VEHICLE FABRIC ACCESSORIES INDUSTRY	63,095,757	129,995,588	106.03%	118,070,470	87.13%

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3259	OTHER MOTOR VEHICLE ACCESSORIES, PARTS & ASSEMBLIES	4,364,897,549	8,993,163,701	106.03%	8,168,177,748	87.13%
3261	RAILROAD ROLLING STOCK INDUSTRY	97,126,203	151,142,102	55.61%	137,277,114	41.34%
3271	SHIPBUILDING & REPAIR INDUSTRY	4,240,970	4,338,148	2.29%	3,940,189	-7.09%
3281	BOATBUILDING & REPAIR INDUSTRY	43,403,245	110,096,648	153.66%	99,996,955	130.39%
3299	OTHER TRANSPORTATION EQUIPMENT INDUSTRIES	51,595,642	52,394,832	1.55%	47,588,403	-7.77%
3311	SMALL ELECTRICAL APPLIANCE INDUSTRY	299,936,077	430,590,800	43.56%	391,090,645	30.39%
3321	MAJOR APPLIANCE INDUSTRY (ELECTRIC & NON-ELECTRIC)	142,408,396	273,346,963	91.95%	248,271,538	74.34%
3331	LIGHTING FIXTURE INDUSTRY	45,424,017	101,664,057	123.81%	92,337,926	103.28%
3332	ELECTRIC LAMP & SHADE INDUSTRY (EXCEPT BULB & TUBE)	8,216,669	15,871,460	93.16%	14,415,495	75.44%
3333	ELECTRIC LAMP (BULB & TUBE) INDUSTRY	72,814,076	138,058,201	89.60%	125,393,461	72.21%
3341	RECORD PLAYER, RADIO & TELEVISION RECEIVER IND.	577,422,274	941,222,018	63.00%	854,879,217	48.05%
3351	TELECOMMUNICATION EQUIPMENT INDUSTRY	187,899,771	504,051,090	168.26%	457,812,071	143.65%
3352	ELECTRONIC PARTS & COMPONENTS INDUSTRY	704,630,423	1,333,898,063	89.30%	1,211,533,209	71.94%
3359	OTH. COMMUNICATIONS & ELECTRONIC EQUIPMENT INDUSTRIES	114,835,287	263,066,384	129.08%	238,934,045	108.07%
3361	ELECTRONIC COMPUTING & PERIPHERAL EQUIPMENT INDUSTRY	1,972,677,391	4,073,848,232	106.51%	3,700,134,634	87.57%
3362	ELECTRONIC OFFICE, STORE & BUSINESS MACHINE INDUSTRY	145,309,554	171,832,363	18.25%	156,069,358	7.40%
3369	OTH. OFFICE, STORE & BUSINESS MACHINE INDUSTRY	319,332,249	493,027,434	54.39%	447,799,668	40.23%
3371	ELECTRICAL TRANSFORMER INDUSTRY	28,343,277	45,139,425	59.26%	40,998,569	44.65%
3372	ELECTRICAL SWITCHGEAR & PROTECTIVE EQUIP. IND.	54,000,269	64,927,528	20.24%	58,971,415	9.21%
3379	OTH. ELECTRICAL INDUSTRIAL EQUIPMENT INDUSTRIES	352,148,624	451,918,596	28.33%	410,461,940	16.56%
3381	COMMUNICATIONS & ENERGY WIRE & CABLE IND.	58,657,384	110,605,372	88.56%	100,459,012	71.26%
3391	BATTERY INDUSTRY	84,419,101	148,001,309	75.32%	134,424,441	59.23%
3392	NON-CURRENT CARRYING WIRING DEVICES INDUSTRY	20,932,948	27,368,433	30.74%	24,857,796	18.75%
3399	OTHER ELECTRICAL PRODUCTS INDUSTRIES N.E.C.	97,854,245	161,573,433	65.12%	146,751,529	49.97%
3511	CLAY PRODUCTS INDUSTRY (FROM DOMESTIC CLAY)	58,100,742	136,717,489	135.31%	124,175,739	113.72%
3512	CLAY PRODUCTS INDUSTRY (FROM IMPORTED CLAY)	100,898,452	112,443,691	11.44%	102,128,693	1.22%
3521	HYDRAULIC CEMENT INDUSTRY	9,849,029	13,244,723	34.48%	12,029,721	22.14%
3541	CONCRETE PIPE INDUSTRY	11,748	46,956	299.69%	42,649	263.03%
3542	STRUCTURAL CONCRETE PRODUCTS INDUSTRY	129,243	516,558	299.68%	469,172	263.02%
3549	OTHER CONCRETE PRODUCTS INDUSTRIES	1,033,961	4,132,476	299.67%	3,753,384	263.01%
3561	PRIMARY GLASS & GLASS CONTAINERS INDUSTRY	97,116,487	200,409,699	106.36%	182,025,158	87.43%
3562	GLASS PRODUCTS INDUSTRY (EXCEPT GLASS CONTAINERS)	102,218,710	130,288,863	27.46%	118,336,842	15.77%
3571	ABRASIVES INDUSTRY	76,216,659	100,290,596	31.59%	91,090,460	19.52%
3581	LIME INDUSTRY	1,417,832	2,122,134	49.67%	1,927,460	35.94%
3591	REFRACTORIES INDUSTRY	101,513,618	153,929,832	51.63%	139,809,112	37.72%
3592	ASBESTOS PRODUCTS INDUSTRY	13,028,317	26,165,406	100.83%	23,765,128	82.41%
3593	GYPSUM PRODUCTS INDUSTRY	1,902,975	12,414,151	552.35%	11,275,342	492.51%
3594	NON-METALLIC MINERAL INSULATING MATERIALS INDUSTRY	15,534,626	34,063,557	119.28%	30,938,744	99.16%
3599	OTH. NON-METALLIC MINERAL PRODUCTS INDUSTRIES N.E.C.	17,264,051	53,566,284	210.26%	48,650,576	181.80%
3611	REFINED PETROLEUM PRODUCTS INDUSTRIES (EXCEPT. LUBRICATING OIL	231,713,532	336,747,414	45.33%	305,855,962	32.00%
3612	LUBRICATING OIL & GREASE INDUSTRY	49,047,409	83,971,343	71.20%	76,268,250	55.50%

Table 13

ONTARIO AND CANADIAN IMPORTS FROM THE UNITED STATES ONLY
BY MANUFACTURING INDUSTRIES, 1981 AND 1987

CANADIAN \$

1980 SIC CODE	INDUSTRY	ONTARIO IMPORTS 1981	ONTARIO IMPORTS 1987	% INCREASE IN REAL DOLLARS	ONTARIO IMPORTS IN CONSTANT \$ 1981	% INCREASE IN CONSTANT 1981 DOLLARS
1011	MEAT & MEAT PRODUCTS IND. (EXCEPT POULTRY)	121,936,136	184,405,511	51.23%	167,489,111	37.36%
1012	POULTRY PRODUCTS INDUSTRY	23,527,360	36,559,279	55.39%	33,205,521	41.14%
1021	FISH PRODUCTS INDUSTRY	32,920,261	49,096,125	49.14%	44,592,302	35.46%
1031	CANNED & PRESERVED FRUIT & VEGETABLE INDUSTRY	81,858,411	104,377,612	27.51%	94,802,554	15.81%
1032	FROZEN FRUIT & VEGETABLE INDUSTRY	47,142,701	71,209,121	51.05%	64,676,767	37.19%
1041	FLUID MILK INDUSTRY	60,923	248,580	308.02%	225,777	270.59%
1049	OTHER DAIRY PRODUCTS INDUSTRIES	6,371,178	19,217,289	201.63%	17,454,395	173.96%
1051	CEREAL GRAIN FLOUR INDUSTRY	6,709,168	5,344,045	-20.35%	4,853,810	-27.65%
1052	PREPARED FLOUR MIXES & PREPARED CEREAL FOODS INDUSTRY	14,775,825	38,897,202	163.25%	35,328,975	139.10%
1053	FEED INDUSTRY	23,373,145	60,334,199	158.13%	54,799,454	134.45%
1061	VEGETABLE OIL MILLS (EXCEPT CORN OIL)	55,130,983	84,200,995	52.73%	76,476,835	38.72%
1071	BISCUIT INDUSTRY	5,655,054	11,413,443	101.83%	10,366,433	83.31%
1072	BREAD & OTHER BAKERY PRODUCTS INDUSTRY	7,528,969	18,421,673	144.68%	16,731,765	122.23%
1081	CANE AND BEET SUGAR INDUSTRY	7,977,761	36,701,571	360.05%	33,334,760	317.85%
1082	CHEWING GUM INDUSTRY	923,502	1,385,653	50.04%	1,258,540	36.28%
1083	SUGAR & CHOCOLATE CONFECTIONERY INDUSTRY	39,249,558	82,416,573	109.98%	74,856,106	90.72%
1091	TEA & COFFEE INDUSTRIES	40,670,237	40,120,359	-1.35%	36,439,926	-10.40%
1092	DRY PASTA PRODUCTS INDUSTRY	1,531,314	3,713,912	142.53%	3,373,217	120.28%
1093	POTATO CHIP, PRETZEL & POPCORN INDUSTRY	2,592,142	5,302,166	104.55%	4,815,773	85.78%
1094	MALT & MALT FLOUR INDUSTRY	90,434	140,204	55.03%	127,342	40.81%
1099	OTHER FOOD PRODUCTS INDUSTRIES N.E.C.	201,045,642	303,035,633	50.73%	275,236,724	36.90%
1111	SOFT DRINK INDUSTRY	2,750,618	4,078,056	48.26%	3,703,956	34.66%
1121	DISTILLERY PRODUCTS INDUSTRY	2,866,506	5,684,074	98.29%	5,162,647	80.10%
1131	BREWERY PRODUCTS INDUSTRY	318,183	973,941	206.09%	884,597	178.02%
1141	WINE INDUSTRY	3,456,447	5,613,505	62.41%	5,098,551	47.51%
1211	LEAD TOBACCO INDUSTRY	5,000,232	940,387	-81.19%	854,121	-82.92%
1221	TOBACCO PRODUCTS INDUSTRY	693,644	2,273,858	227.81%	2,065,266	197.74%
1511	TIRE AND TUBE INDUSTRY	115,033,033	238,148,225	107.03%	216,301,748	88.03%
1521	RUBBER HOSE & BELTING INDUSTRY	19,407,413	26,947,120	38.85%	24,475,132	26.11%
1599	OTHER RUBBER PRODUCTS INDUSTRIES	102,422,599	190,984,652	86.47%	173,464,716	69.36%

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1611	FOAMED & EXPANDED PLASTIC PRODUCTS INDUSTRY	13,093,171	28,929,800	120.95%	26,275,931	100.68%
1621	PLASTIC PIPE AND PIPE FITTINGS INDUSTRY	10,385,595	16,938,236	63.09%	15,384,411	48.13%
1631	PLASTIC FILM & SHEETING INDUSTRY	174,097,268	348,758,063	100.32%	316,764,817	81.95%
1691	PLASTIC BAG INDUSTRY	4,145,079	11,689,133	182.00%	10,616,833	156.13%
1699	OTHER PLASTIC PRODUCTS INDUSTRIES N.E.C.	206,451,498	381,594,309	86.83%	346,588,837	67.88%
1711	LEATHER TANNERIES	20,717,344	23,753,062	14.65%	21,574,080	4.14%
1712	FOOTWEAR INDUSTRY	19,312,745	36,357,235	88.26%	33,022,012	70.99%
1713	LUGGAGE, PURSE & HANDBAG INDUSTRY	6,658,270	7,246,721	8.84%	6,581,945	-1.15%
1719	OTHER LEATHER & ALLIED PRODUCTS INDUSTRIES	8,040,502	10,692,147	32.98%	9,711,305	20.78%
1811	HAN-MADE FIBRE & FILAMENT YARN INDUSTRY	92,008,962	160,574,389	74.52%	145,844,132	58.51%
1821	WOOL YARN & WOVEN CLOTH INDUSTRY	4,943,811	8,597,071	73.90%	7,808,421	57.94%
1829	OTHER SPUN YARN & WOVEN CLOTH INDUSTRIES	151,822,129	173,018,512	13.96%	157,146,696	3.51%
1831	BROAD KNITTED FABRIC INDUSTRY	36,231,390	60,041,556	65.72%	54,533,657	50.51%
1911	NATURAL FIBRES PROCESSING & FELT PROD. IND.	5,626,951	6,196,754	10.13%	5,628,296	0.02%
1921	CARPET, MAT & RUG INDUSTRY	22,664,624	36,594,741	61.46%	33,237,730	46.65%
1931	CANVAS & RELATED PRODUCTS INDUSTRY	4,059,984	8,183,381	101.56%	7,432,680	83.07%
1991	NARROW FABRIC INDUSTRY	16,970,599	23,247,299	36.99%	21,114,713	24.42%
1993	HOUSEHOLD PRODUCTS OF TEXTILE MATERIALS INDUSTRY	40,971,003	30,949,384	-24.46%	28,110,249	-31.39%
1994	HYGIENE PRODUCTS OF TEXTILE MATERIALS INDUSTRY	4,890,307	4,606,398	-5.81%	4,183,831	-14.45%
1995	TIRE CORD FABRIC INDUSTRY	3,126,615	5,795,284	85.35%	5,263,655	68.35%
1999	OTHER TEXTILE PRODUCTS INDUSTRIES N.E.C.	53,829,127	72,514,189	34.71%	65,862,115	22.35%
2431	MEN'S & BOYS' COAT INDUSTRY	651,251	656,150	0.75%	595,958	-8.49%
2432	MEN'S & BOYS' SUIT & JACKET INDUSTRY	4,414,292	2,252,218	-48.98%	2,045,611	-53.66%
2433	MEN'S & BOYS' PANTS INDUSTRY	2,930,460	3,997,858	36.42%	3,631,115	23.91%
2434	MEN'S & BOYS' SHIRT & UNDERWEAR INDUSTRY	5,070,863	4,894,333	-3.48%	4,445,352	-12.34%
2441	WOMEN'S COAT & JACKET INDUSTRY	1,222,496	1,133,675	-7.27%	1,029,678	-15.77%
2442	WOMEN'S SPORTSWEAR INDUSTRY	6,221,806	4,436,853	-28.69%	4,029,839	-35.23%
2443	WOMEN'S DRESS INDUSTRY	3,215,356	3,184,610	-0.96%	2,892,470	-10.04%
2444	WOMEN'S BLOUSE & SHIRT INDUSTRY	2,404,054	3,498,942	45.54%	3,177,967	32.19%
2451	CHILDREN'S CLOTHING INDUSTRY	2,826,755	4,056,701	43.51%	3,684,560	30.35%
2491	SWEATER INDUSTRY	859,065	2,027,862	136.05%	1,841,837	114.40%
2492	OCCUPATIONAL CLOTHING INDUSTRY	2,743,638	3,528,381	28.60%	3,204,706	16.80%
2493	GLOVE INDUSTRY	3,558,102	3,212,576	-9.71%	2,917,871	-17.99%
2494	HOSIERY INDUSTRY	7,393,761	6,217,107	-15.91%	5,646,782	-23.63%
2495	FUR GOODS INDUSTRY	201,774	650,605	222.44%	590,922	192.86%
2496	FOUNDATION GARMENT INDUSTRY	1,481,559	825,321	-44.29%	749,610	-49.40%
2499	OTHER CLOTHING & APPAREL INDUSTRIES N.E.C.	8,537,724	17,920,102	109.89%	16,276,205	90.64%
2511	SHINGLE & SHAKE INDUSTRY	191,964	195,999	2.10%	178,019	-7.26%
2512	SAWMILL & PLANING MILL PRODUCTS INDUSTRY (EXCEPT SHINGLES &	96,166,717	217,636,456	126.31%	197,671,622	105.55%
2521	HARDWOOD VENEER & PLYWOOD INDUSTRY	8,882,924	19,318,619	117.48%	17,546,430	97.53%
2522	SOFTWOOD VENEER & PLYWOOD INDUSTRY	7,766,845	24,440,392	214.68%	22,198,358	185.81%

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2541	PREFABRICATED WOODEN BUILDINGS INDUSTRY	518,754	1,732,932	234.06%	1,573,962	203.41%
2542	WOODEN KITCHEN CABINET & BATHROOM VANITY IND.	1,173,633	8,548,953	628.42%	7,764,717	561.60%
2543	WOODEN DOOR & WINDOW INDUSTRY	16,271,201	30,806,832	89.33%	27,980,774	71.97%
2549	OTHER MILLWORK INDUSTRIES	6,969,716	39,681,140	469.34%	36,040,999	417.11%
2561	WOODEN BOX & PALLET INDUSTRY	4,681,925	6,835,061	45.99%	6,208,048	32.60%
2581	COFFIN & CASKET INDUSTRY	4,195,548	9,683,640	130.81%	8,795,313	109.63%
2592	PARTICLE BOARD INDUSTRY	1,923,231	5,338,221	177.57%	4,848,520	152.10%
2599	OTHER WOOD INDUSTRIES N.E.C.	21,709,465	24,486,234	12.79%	22,239,995	2.44%
2611	WOODEN HOUSEHOLD FURNITURE INDUSTRY	37,692,686	39,990,164	6.10%	36,321,675	-3.64%
2612	UPHOLSTERED HOUSEHOLD FURNITURE INDUSTRY	5,628,539	16,080,926	185.70%	14,605,746	159.49%
2619	OTHER HOUSEHOLD FURNITURE INDUSTRIES	13,195,022	21,917,887	66.11%	19,907,254	50.87%
2641	METAL OFFICE FURNITURE INDUSTRY	4,035,323	5,091,499	26.17%	4,624,431	14.60%
2649	OTHER OFFICE FURNITURE INDUSTRIES	16,141,293	20,365,996	26.17%	18,497,726	14.60%
2691	BED SPRING & MATTRESS INDUSTRY	818,434	2,149,956	162.69%	1,952,730	138.59%
2692	HOTEL, RESTAURANT & INSTITUTIONAL FURNITURE	18,468,275	26,566,635	43.85%	24,129,550	30.65%
2699	OTHER FURNITURE & FIXTURE INDUSTRIES N.E.C.	15,079,720	41,936,229	178.10%	38,089,218	152.59%
2711	PULP INDUSTRY	38,684,771	48,592,455	25.61%	44,134,837	14.09%
2712	NEWSPRINT INDUSTRY	12,562,810	13,713,088	9.16%	12,455,121	-0.86%
2713	PAPERBOARD INDUSTRY	32,528,969	103,060,467	216.83%	93,606,237	187.76%
2714	BUILDING BOARD INDUSTRY	11,129,404	42,578,198	282.57%	38,672,296	247.48%
2719	OTHER PAPER INDUSTRIES	138,542,585	212,674,346	53.51%	193,164,710	39.43%
2721	ASPHALT ROOFING INDUSTRY	1,456,711	3,041,506	108.79%	2,762,494	89.64%
2731	FOLDING CARTON & SET-UP BOX INDUSTRY	29,446,188	48,978,506	66.33%	44,485,473	51.07%
2732	CORRUGATED BOX INDUSTRY	4,217,519	9,879,779	134.26%	8,973,460	112.77%
2733	PAPER BAG INDUSTRY	2,479,344	4,682,265	88.85%	4,252,738	71.53%
2791	COATED & TREATED PAPER INDUSTRY	54,995,592	108,058,715	96.49%	98,145,972	78.46%
2792	STATIONERY PAPER PRODUCTS INDUSTRY	26,730,813	37,092,150	38.76%	33,689,510	26.03%
2793	PAPER CONSUMER PRODUCTS INDUSTRY	7,093,138	13,363,487	88.40%	12,137,590	71.12%
2799	OTHER CONVERTED PAPER PRODUCTS INDUSTRIES N.E.C.	28,251,461	40,050,360	41.76%	36,376,349	28.76%
2811	BUSINESS FORMS PRINTING INDUSTRY	6,992,389	11,821,813	69.07%	10,737,342	53.56%
2819	OTHER COMMERCIAL PRINTING INDUSTRIES	128,017,805	203,275,325	58.79%	184,627,906	44.22%
2821	PLATEMAKING, TYPESETTING & BINDERY INDUSTRY	16,103,933	19,690,973	22.27%	17,884,626	11.06%
2831	BOOK PUBLISHING INDUSTRY	323,144,067	420,884,002	30.25%	382,274,298	18.30%
2839	OTHER PUBLISHING INDUSTRIES	176,446,976	305,051,662	72.89%	277,067,813	57.03%
2911	FERRO-ALLOYS INDUSTRY	52,692,741	43,098,555	-18.21%	39,144,918	-25.71%
2912	STEEL FOUNDRIES	11,289,434	14,385,292	27.42%	13,065,660	15.73%
2919	OTHER PRIMARY STEEL INDUSTRIES	489,524,073	380,295,217	-22.31%	345,408,916	-29.44%
2921	STEEL PIPE & TUBE INDUSTRY	93,852,593	82,432,784	-12.17%	74,870,830	-20.23%
2941	IRON FOUNDRIES	80,780,601	94,311,061	16.75%	85,659,456	6.04%
2951	PRIMARY PRODUCTION OF ALUMINUM INDUSTRY	14,995,150	70,669,281	371.28%	64,186,450	328.05%
2959	OTHER PRIMARY SHELTING & REFINING OF NON-FERROUS METAL	1,191,374,254	941,951,235	-20.94%	855,541,540	-28.19%

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2961	ALUMINUM ROLLING, CASTING & EXTRUDING INDUSTRY	297,740,473	574,986,706	93.12%	522,240,423	75.40%
2971	COPPER & COPPER ALLOY ROLLING, CASTING & EXTRUDING	42,946,099	100,791,526	134.69%	91,545,437	113.16%
2999	OTHER ROLLED, CAST & EXTRUDED NON-FERROUS METAL PROD.	59,536,141	68,637,286	15.29%	62,340,859	4.71%
3011	POWER BOILER & HEAT EXCHANGER INDUSTRY	26,229,045	22,334,665	-14.85%	20,285,799	-22.66%
3021	METAL TANKS (HEAVY GAUGE) INDUSTRY	14,433,905	16,515,953	14.42%	15,000,866	3.93%
3022	PLATE WORK INDUSTRY	13,597,221	5,108,035	-62.43%	4,639,450	-65.88%
3029	OTHER FABRICATED STRUCTURAL METAL PROD. IND.	5,329,014	8,420,655	58.02%	7,648,188	43.52%
3031	METAL DOOR & WINDOW INDUSTRY	4,432,664	4,952,256	11.72%	4,497,962	1.47%
3032	PREFABRICATED PORTABLE METAL BUILDINGS INDUSTRY	2,939,610	9,819,948	234.06%	8,919,117	203.41%
3039	OTH. ORNAMENTAL & ARCHITECTURAL METAL PROD. IND.	7,556,705	13,607,930	80.08%	12,359,609	63.56%
3042	METAL CLOSURE & CONTAINER INDUSTRY	49,690,861	112,961,584	127.33%	102,599,077	106.47%
3049	OTHER STAMPED & PRESSED METAL PRODUCTS INDUSTRIES	157,543,395	87,770,561	-44.29%	79,718,947	-49.40%
3051	UPHOLSTERY & COIL SPRING INDUSTRY	2,101,581	5,141,047	144.63%	4,669,434	122.19%
3052	WIRE & WIRE ROPE INDUSTRY	18,455,195	30,148,968	63.36%	27,383,259	48.38%
3053	INDUSTRIAL FASTENER INDUSTRY	155,520,149	231,458,008	48.83%	210,225,257	35.18%
3059	OTHER WIRE PRODUCTS INDUSTRIES	83,809,962	137,488,365	64.05%	124,875,899	49.00%
3061	BASIC HARDWARE INDUSTRY	85,688,815	143,137,033	67.04%	130,006,388	51.72%
3062	METAL DIES, MOULDS & PATTERNS INDUSTRY	34,798,517	104,625,784	200.66%	95,027,960	173.08%
3063	HAND TOOL & IMPLEMENT INDUSTRY	109,544,744	113,197,905	3.33%	102,813,719	-6.14%
3069	OTHER HARDWARE & CUTLERY INDUSTRIES	90,587,856	102,252,766	12.88%	92,872,630	2.52%
3071	HEATING EQUIPMENT INDUSTRY	21,130,720	48,680,472	130.38%	44,214,779	109.24%
3091	METAL PLUMBING FIXTURES & FITTINGS INDUSTRIES	45,410,224	84,403,855	85.87%	76,661,085	68.82%
3092	METAL VALVE INDUSTRY	80,743,216	106,920,821	32.42%	97,112,462	20.27%
3099	OTHER METAL FABRICATING INDUSTRIES N.E.C	202,718,089	303,415,735	49.67%	275,581,957	35.94%
3111	AGRICULTURAL IMPLEMENT INDUSTRY	618,606,174	443,327,294	-28.33%	402,658,759	-34.91%
3121	COMMERCIAL REFRIGERATION & AIR CONDITIONING EQP.	164,273,863	293,847,669	78.88%	266,891,616	62.47%
3191	COMPRESSOR, PUMP & INDUSTRIAL FAN INDUSTRY	141,826,924	180,823,677	27.50%	164,235,856	15.80%
3192	CONSTRUCTION & MINING MACHINERY & MATERIALS HOLING EQP.	697,896,520	1,165,568,672	67.01%	1,058,645,479	51.69%
3193	SAWMILL & WOODWORKING MACHINERY INDUSTRY	40,250,276	58,618,884	45.64%	53,241,493	32.28%
3194	TURBINE & MECHANICAL POWER TRANSMISSION EQP.	296,255,105	237,564,810	-19.81%	215,771,853	-27.17%
3199	OTHER MACHINERY & EQUIPMENT INDUSTRIES N.E.C.	1,836,260,690	2,484,116,447	35.28%	2,256,236,555	22.87%
3211	AIRCRAFT & AIRCRAFT PARTS INDUSTRY	535,640,353	763,614,100	42.56%	693,564,124	29.48%
3231	MOTOR VEHICLE INDUSTRY	4,073,929,799	10,334,026,954	153.66%	9,386,037,197	130.39%
3241	TRUCK & BUS BODY INDUSTRY	8,934,144	50,285,524	462.85%	45,672,592	411.21%
3242	COMMERCIAL TRAILER INDUSTRY	13,877,088	32,790,229	136.29%	29,782,224	114.61%
3243	NON-COMMERCIAL TRAILER INDUSTRY	6,965,186	21,925,836	214.79%	19,914,474	185.91%
3244	MOBILE HOME INDUSTRY	731,971	2,544,407	247.61%	2,310,996	215.72%
3251	MOTOR VEHICLE ENGINE & ENGINE PARTS INDUSTRY	1,556,167,495	2,641,893,495	69.77%	2,399,539,959	54.20%
3252	MOTOR VEHICLE WIRING ASSEMBLIES INDUSTRY	136,476,632	436,986,482	220.19%	396,899,620	190.82%
3253	MOTOR VEHICLES STAMPINGS INDUSTRY	927,099,370	1,819,903,735	96.30%	1,652,955,254	78.29%
3254	MOTOR VEHICLE STEERING & SUSPENSION PARTS IND.	618,066,247	1,213,269,157	96.30%	1,101,970,170	78.29%

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3255	MOTOR VEHICLE WHEEL & BRAKE INDUSTRY	247,226,498	485,307,662	96.30%	440,788,067	78.29%
3256	PLASTIC PARTS & ACCESSORIES FOR MOTOR VEHICLES IND.	61,806,624	121,326,915	96.30%	110,197,016	78.29%
3257	MOTOR VEHICLE FABRIC ACCESSORIES INDUSTRY	61,806,624	121,326,915	96.30%	110,197,016	78.29%
3259	OTHER MOTOR VEHICLE ACCESSORIES, PARTS & ASSEMBLIES	4,270,475,353	8,388,194,544	96.42%	7,618,705,308	78.40%
3261	RAILROAD ROLLING STOCK INDUSTRY	91,459,630	137,154,581	49.96%	124,572,735	36.21%
3271	SHIPBUILDING & REPAIR INDUSTRY	2,915,923	3,540,643	21.42%	3,215,843	10.29%
3281	BOATBUILDING & REPAIR INDUSTRY	30,728,235	93,574,937	204.52%	84,990,860	176.59%
3299	OTHER TRANSPORTATION EQUIPMENT INDUSTRIES	25,467,804	45,601,169	79.05%	41,417,955	62.63%
3311	SMALL ELECTRICAL APPLIANCE INDUSTRY	228,270,511	267,426,781	17.15%	242,894,442	6.41%
3321	MAJOR APPLIANCE INDUSTRY (ELECTRIC & NON-ELECTRIC)	108,452,750	176,843,593	63.06%	160,620,884	48.10%
3331	LIGHTING FIXTURE INDUSTRY	37,339,500	66,140,147	77.13%	60,072,795	60.88%
3332	ELECTRIC LAMP & SHADE INDUSTRY (EXCEPT BULB & TUBE)	6,975,376	7,260,260	4.08%	6,594,242	-5.46%
3333	ELECTRIC LAMP (BULB & TUBE) INDUSTRY	58,763,499	100,606,439	71.21%	91,377,329	55.50%
3341	RECORD PLAYER, RADIO & TELEVISION RECEIVER IND.	220,532,759	384,404,646	74.31%	349,141,368	58.32%
3351	TELECOMMUNICATION EQUIPMENT INDUSTRY	138,320,523	244,829,355	77.00%	222,369,986	60.76%
3352	ELECTRONIC PARTS & COMPONENTS INDUSTRY	588,554,381	1,053,374,528	78.98%	956,743,441	62.56%
3359	OTH. COMMUNICATIONS & ELECTRONIC EQUIPMENT INDUSTRIES	100,276,025	199,059,075	98.51%	180,798,433	80.30%
3361	ELECTRONIC COMPUTING & PERIPHERAL EQUIPMENT INDUSTRY	1,882,111,316	3,510,661,937	86.53%	3,188,612,114	69.42%
3362	ELECTRONIC OFFICE, STORE & BUSINESS MACHINE INDUSTRY	83,937,919	88,163,021	5.03%	80,075,405	-4.60%
3369	OTH. OFFICE, STORE & BUSINESS MACHINE INDUSTRIES	255,468,081	302,303,835	18.33%	274,572,057	7.48%
3371	ELECTRICAL TRANSFORMER INDUSTRY	25,839,202	35,980,181	39.25%	32,679,547	26.47%
3372	ELECTRICAL SWITCHGEAR & PROTECTIVE EQUIP. IND.	45,845,350	48,005,596	4.71%	43,601,813	-4.89%
3379	OTH. ELECTRICAL INDUSTRIAL EQUIPMENT INDUSTRIES	311,932,277	380,635,502	22.03%	345,717,985	10.83%
3381	COMMUNICATIONS & ENERGY WIRE & CABLE IND.	56,963,386	106,177,318	86.40%	96,437,164	69.30%
3391	BATTERY INDUSTRY	75,461,682	117,250,188	55.38%	106,494,267	41.12%
3392	NON-CURRENT CARRYING WIRING DEVICES INDUSTRY	20,296,417	26,360,879	29.88%	23,942,669	17.97%
3399	OTHER ELECTRICAL PRODUCTS INDUSTRIES N.E.C.	89,163,095	140,448,939	57.52%	127,564,886	43.07%
3511	CLAY PRODUCTS INDUSTRY (FROM DOMESTIC CLAY)	26,091,611	67,764,789	159.72%	61,548,401	135.89%
3512	CLAY PRODUCTS INDUSTRY (FROM IMPORTED CLAY)	22,104,043	26,837,582	21.41%	24,375,642	10.28%
3521	HYDRAULIC CEMENT INDUSTRY	9,579,822	13,182,688	37.61%	11,973,377	24.99%
3541	CONCRETE PIPE INDUSTRY	11,637	46,233	297.29%	41,992	260.85%
3542	STRUCTURAL CONCRETE PRODUCTS INDUSTRY	128,008	508,571	297.30%	461,917	260.85%
3549	OTHER CONCRETE PRODUCTS INDUSTRIES	1,024,069	4,068,568	297.29%	3,695,339	260.85%
3561	PRIMARY GLASS & GLASS CONTAINERS INDUSTRY	90,704,760	184,878,707	103.82%	167,918,898	85.13%
3562	GLASS PRODUCTS INDUSTRY (EXCEPT GLASS CONTAINERS)	73,761,235	69,011,196	-6.44%	62,680,469	-15.02%
3571	ABRASIVES INDUSTRY	66,166,372	78,065,357	17.98%	70,904,048	7.16%
3581	LINE INDUSTRY	1,417,832	2,122,134	49.67%	1,927,460	35.94%
3591	REFRACATORIES INDUSTRY	89,951,555	134,174,987	49.16%	121,866,473	35.48%
3592	ASBESTOS PRODUCTS INDUSTRY	11,288,392	24,525,050	117.26%	22,275,250	97.33%
3593	GYPSUM PRODUCTS INDUSTRY	1,847,277	12,363,907	569.30%	11,229,707	507.91%
3594	NON-METALLIC MINERAL INSULATING MATERIALS INDUSTRY	15,151,848	33,833,868	123.30%	30,730,125	102.81%

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3599	OTH. NON-METALLIC MINERAL PRODUCTS INDUSTRIES N.E.C.	12,196,497	22,067,075	80.93%	20,042,757	64.33%
3611	REFINED PETROLEUM PRODUCTS INDUSTRIES (EXCEPT. LUBRICATING OIL)	223,141,339	309,024,175	38.49%	280,675,908	25.78%
3612	LUBRICATING OIL & GREASE INDUSTRY	41,053,039	75,062,514	82.84%	60,176,670	66.07%
3699	OTHER PETROLEUM & COAL PRODUCTS INDUSTRIES	51,233,947	71,859,812	40.26%	65,267,767	27.39%
3711	INDUSTRIAL INORGANIC CHEMICAL INDUSTRIES N.E.C.	169,885,610	227,066,808	33.66%	206,236,883	21.40%
3712	INDUSTRIAL ORGANIC CHEMICAL INDUSTRIES N.E.C.	605,692,165	905,779,021	49.54%	822,687,576	35.83%
3721	CHEMICAL FERTILIZER & FERTILIZER MATERIALS INDUSTRY	70,373,694	86,076,152	22.31%	78,179,975	11.09%
3722	MIXED FERTILIZER INDUSTRY	8,847,019	11,040,861	24.80%	10,028,030	13.35%
3729	OTHER AGRICULTURAL CHEMICAL INDUSTRIES	67,365,778	75,341,912	11.84%	68,430,438	1.58%
3731	PLASTIC & SYNTHETIC RESIN INDUSTRY	402,762,351	732,482,319	81.86%	665,288,210	65.18%
3741	PHARMACEUTICAL & MEDICINE INDUSTRY	111,730,807	222,708,220	99.33%	202,278,129	81.04%
3751	PAINT & VARNISH INDUSTRY	60,893,829	175,246,108	187.79%	159,169,944	161.39%
3761	SOAP & CLEANING COMPOUNDS INDUSTRY	18,993,930	29,127,433	53.35%	26,455,434	39.28%
3771	TOILET PREPARATIONS INDUSTRY	41,905,749	64,119,763	53.01%	58,237,750	38.97%
3791	PRINTING INK INDUSTRY	5,986,616	15,277,533	155.19%	13,876,052	131.78%
3792	ADHESIVES INDUSTRY	17,274,953	35,748,859	106.94%	32,469,445	87.96%
3799	OTHER CHEMICAL PRODUCTS INDUSTRIES N.E.C.	463,304,364	684,198,765	47.68%	621,433,937	34.13%
3911	INDICATING, RECORDING & CONTROLLING INSTR. INDUS.	317,045,088	458,719,677	44.69%	416,639,125	31.41%
3912	OTH. INSTRUMENTS & RELATED PRODUCTS INDUSTRY	659,618,264	913,131,319	38.43%	829,365,412	25.73%
3913	CLOCK & WATCH INDUSTRY	30,375,464	48,494,851	59.65%	44,046,186	45.01%
3914	OPHTHALMIC GOODS INDUSTRY	27,581,518	48,871,803	77.19%	44,388,559	60.94%
3921	JEWELLERY & SILVERWARE INDUSTRY	62,742,551	90,813,841	44.74%	82,483,033	31.46%
3931	SPORTING GOODS INDUSTRY	60,935,605	85,060,042	39.59%	77,257,077	26.78%
3932	TOYS AND GAMES INDUSTRY	88,361,624	108,341,760	22.61%	98,403,032	11.36%
3971	SIGN & DISPLAY INDUSTRY	8,772,450	16,555,796	88.72%	15,037,054	71.41%
3991	BROOM, BRUSH & MOP INDUSTRY	8,898,675	14,213,611	59.73%	12,909,728	45.07%
3992	BUTTON, BUCKLE & CLOTHES FASTENER INDUSTRY	5,495,762	6,107,463	11.13%	5,547,196	0.94%
3993	FLOOR TILE, LINOLEUM & COATED FABRIC INDUSTRY	81,538,387	149,368,164	83.19%	135,665,907	66.38%
3994	MUSICAL INSTRUMENT & SOUND RECORDING INDUSTRY	104,473,457	160,902,133	54.01%	146,141,810	39.88%
3999	OTHER MANUFACTURED PRODUCTS INDUSTRIES N.E.C.	233,387,155	393,165,651	68.46%	357,098,684	53.01%
TOTAL ALL MANUFACTURING INDUSTRIES		32,064,872,771	55,144,594,114	71.98%	50,085,916,543	56.20%

NOTE: Deflator used for 1987 Imports was 110.1.

SOURCE: Import Trade, Statistics Canada Catalogue 65-203, 1988.

Table 14

ONTARIO AND CANADIAN IMPORTS FROM OTHER COUNTRIES, EXCLUDING
THE UNITED STATES, BY MANUFACTURING INDUSTRIES, 1981 AND 1987

CANADIAN \$

1980 SIC CODE	INDUSTRY	ONTARIO IMPORTS 1981	ONTARIO IMPORTS 1987	% INCREASE IN REAL DOLLARS	ONTARIO IMPORTS 1981 CONSTANT \$	% INCREASE 1981 CONSTANT DOLLARS
1011	MEAT & MEAT PRODUCTS IND. (EXCEPT POULTRY)	41,962,175	94,245,198	124.60%	85,599,635	103.99%
1012	POULTRY PRODUCTS INDUSTRY	14,136,994	2,583,425	-81.73%	2,346,435	-83.40%
1021	FISH PRODUCTS INDUSTRY	24,847,267	88,190,928	254.93%	80,100,752	222.37%
1031	CANNED & PRESERVED FRUIT & VEGETABLE INDUSTRY	80,933,451	127,416,726	57.43%	115,728,180	42.99%
1032	FROZEN FRUIT & VEGETABLE INDUSTRY	36,517,447	59,296,659	62.38%	53,857,093	47.48%
1041	FLUID MILK INDUSTRY	26,662	38,619	44.85%	35,076	31.56%
1049	OTHER DAIRY PRODUCTS INDUSTRIES	37,970,818	51,227,348	34.91%	46,528,018	22.54%
1051	CEREAL GRAIN FLOUR INDUSTRY	190,817	679,042	255.86%	616,750	223.22%
1052	PREPARED FLOUR MIXES & PREPARED CEREAL FOODS INDUSTRY	750,830	1,533,859	104.29%	1,393,151	85.55%
1053	FEED INDUSTRY	1,055,004	3,667,563	247.63%	3,331,120	215.74%
1061	VEGETABLE OIL MILLS (EXCEPT CORN OIL)	35,409,441	35,357,441	-0.15%	32,113,934	-9.31%
1071	BISCUIT INDUSTRY	8,935,102	22,943,396	156.78%	20,838,688	133.22%
1072	BREAD & OTHER BAKERY PRODUCTS INDUSTRY	1,926,586	6,467,981	235.72%	5,874,642	204.92%
1081	CANE AND BEET SUGAR INDUSTRY	146,523,566	60,259,710	-58.87%	54,731,798	-62.65%
1082	CHEWING GUM INDUSTRY	112,152	390,624	248.30%	354,790	216.35%
1083	SUGAR & CHOCOLATE CONFECTIONERY INDUSTRY	41,449,209	93,321,930	125.15%	84,761,063	104.49%
1091	TEA & COFFEE INDUSTRY	78,061,059	128,469,913	64.58%	116,684,753	49.48%
1092	DRY PASTA PRODUCTS INDUSTRY	3,263,537	6,564,211	101.14%	5,962,045	82.69%
1093	POTATO CHIP, PRETZEL & POPCORN INDUSTRY	450,427	1,416,567	214.49%	1,286,619	185.64%
1094	MALT & MALT FLOUR INDUSTRY	16,846	71,737	325.84%	65,156	286.78%
1099	OTHER FOOD PRODUCTS INDUSTRIES N.E.C.	71,527,920	114,085,819	59.50%	103,620,181	44.87%
1111	SOFT DRINK INDUSTRY	3,952,378	36,135,970	814.28%	32,821,045	730.41%
1121	DISTILLERY PRODUCTS INDUSTRY	44,904,348	62,380,923	38.92%	56,658,422	26.18%
1131	BREWERY PRODUCTS INDUSTRY	3,663,402	6,971,680	90.31%	6,332,134	72.85%
1141	WINE INDUSTRY	43,512,226	111,917,888	157.21%	101,651,124	133.62%
1211	LEAD TOBACCO INDUSTRY	245,183	2,033,341	729.32%	1,846,813	653.24%
1221	TOBACCO PRODUCTS INDUSTRY	1,271,026	3,273,846	157.58%	2,973,520	133.95%
1511	TIRE AND TUBE INDUSTRY	36,717,095	75,301,211	105.08%	68,393,470	86.27%
1521	RUBBER HOSE & BELTING INDUSTRY	2,893,777	8,768,578	203.01%	7,964,194	175.22%
1599	OTHER RUBBER PRODUCTS INDUSTRIES	11,920,053	22,992,127	92.89%	20,882,949	75.19%
1611	FOAMED & EXPANDED PLASTIC PRODUCTS INDUSTRY	717,328	3,165,845	341.34%	2,875,427	300.85%
1621	PLASTIC PIPE AND PIPE FITTINGS INDUSTRY	181,147	839,386	363.37%	762,385	320.87%

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		19,703,265	43,605,001	121.31%	39,604,906	101.01%
1631	PLASTIC FILM & SHEETING INDUSTRY					
1691	PLASTIC BAG INDUSTRY	490,519	4,055,013	726.68%	3,683,027	650.84%
1699	OTHER PLASTIC PRODUCTS INDUSTRIES M.E.C.	26,512,117	85,384,786	222.06%	77,552,031	192.52%
1711	LEATHER TANNERIES	24,518,459	75,085,227	206.24%	68,197,300	178.15%
1712	FOOTWEAR INDUSTRY	171,264,597	356,206,125	107.99%	323,529,632	88.91%
1713	LUGGAGE, PURSE & HANDBAG INDUSTRIES	25,741,239	50,223,015	95.11%	45,615,817	77.21%
1719	OTHER LEATHER & ALLIED PRODUCTS INDUSTRIES	7,283,307	12,001,563	64.78%	10,900,602	49.67%
1811	HAN-MADE FIBRE & FILAMENT YARN INDUSTRY	24,455,911	47,796,120	95.44%	43,411,553	77.51%
1821	WOOL YARN & WOVEN CLOTH INDUSTRY	27,497,739	43,041,602	56.53%	39,093,190	42.17%
1829	OTHER SPUN YARN & WOVEN CLOTH INDUSTRIES	73,615,824	161,331,166	119.15%	146,531,486	99.05%
1831	BROAD KNITTED FABRIC INDUSTRY	2,771,325	14,283,840	415.42%	12,973,515	368.13%
1911	NATURAL FIBRES PROCESSING & FELT PROD. IND.	13,265,072	14,827,686	11.78%	13,467,471	1.53%
1921	CARPET, MAT & RUG INDUSTRY	19,310,728	48,974,444	153.61%	44,481,784	130.35%
1931	CANVAS & RELATED PRODUCTS INDUSTRY	3,087,379	10,001,563	223.95%	9,084,072	194.23%
1991	NARROW FABRIC INDUSTRY	3,907,273	7,963,769	103.82%	7,233,214	85.12%
1993	HOUSEHOLD PRODUCTS OF TEXTILE MATERIALS INDUSTRY	20,910,177	38,739,574	85.27%	35,185,807	68.27%
1994	HYGIENE PRODUCTS OF TEXTILE MATERIALS INDUSTRY	331,072	2,083,115	529.20%	1,892,021	471.48%
1995	TIRE CORD FABRIC INDUSTRY	18,603	222,592	1096.54%	202,173	986.77%
1999	OTHER TEXTILE PRODUCTS INDUSTRIES M.E.C.	30,322,679	56,562,549	86.54%	51,373,796	69.42%
2431	MEN'S & BOYS' COAT INDUSTRY	1,767,032	9,017,860	410.34%	8,190,609	363.52%
2432	MEN'S & BOYS' SUIT & JACKET INDUSTRY	10,419,798	47,862,135	359.34%	43,471,512	317.20%
2433	MEN'S & BOYS' PANTS INDUSTRY	7,684,199	41,290,849	437.35%	37,503,042	388.05%
2434	MEN'S & BOYS' SHIRT & UNDERWEAR INDUSTRY	28,240,107	103,150,205	265.26%	93,687,743	231.75%
2441	WOMEN'S COAT & JACKET INDUSTRY	5,687,559	20,904,034	267.54%	18,986,407	233.82%
2442	WOMEN'S SPORTSWEAR INDUSTRY	21,248,302	96,870,212	355.90%	87,983,844	314.07%
2443	WOMEN'S DRESS INDUSTRY	13,846,870	20,921,734	51.09%	19,002,483	37.23%
2444	WOMEN'S BLOUSE & SHIRT INDUSTRY	26,773,238	52,258,466	95.19%	47,464,547	77.28%
2451	CHILDREN'S CLOTHING INDUSTRY	8,894,500	29,497,824	231.64%	26,791,847	201.22%
2491	SWEATER INDUSTRY	32,156,627	120,065,692	273.38%	109,051,491	239.13%
2492	OCCUPATIONAL CLOTHING INDUSTRY	1,722,242	6,364,401	269.54%	5,780,564	235.64%
2493	GLOVE INDUSTRY	15,416,303	28,343,746	83.86%	25,743,639	66.99%
2494	HOSIERY INDUSTRY	3,051,918	8,933,855	192.73%	8,114,310	165.88%
2495	FUR GOODS INDUSTRY	1,886,520	5,459,872	189.42%	4,959,012	162.87%
2496	FOUNDATION GARMENT INDUSTRY	988,441	2,290,507	131.73%	2,080,388	110.47%
2499	OTHER CLOTHING & APPAREL INDUSTRIES M.E.C.	17,214,005	53,339,966	209.86%	48,446,836	181.44%
2511	SHINGLE & SHAKE INDUSTRY	0	0	ERR	0	ERR
2512	SAWMILL & PLANING MILL PRODUCTS INDUSTRY (EXCEPT SHINGLES &	5,837,116	8,629,570	47.84%	7,837,938	34.28%
2521	HARWOOD VENEER & PLYWOOD INDUSTRY	8,488,608	22,968,714	170.58%	20,861,684	145.76%
2522	SOFTWOOD VENEER & PLYWOOD INDUSTRY	1,179,104	1,657,114	40.54%	1,505,099	27.65%
2541	PREFABRICATED WOODEN BUILDINGS INDUSTRY	5,208	101,364	1846.31%	92,065	1667.77%
2542	WOODEN KITCHEN CABINET & BATHROOM VANITY IND.	144,720	734,088	407.25%	666,747	360.71%

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2543	WOODEN DOOR & WINDOW INDUSTRY	757,398	1,628,264	114.98%	1,470,896	95.26%
2549	OTHER MILLWORK INDUSTRIES	1,062,185	4,276,114	302.58%	3,883,846	265.65%
2561	WOODEN BOX & PALLET INDUSTRY	993,949	733,202	-26.23%	665,942	-33.00%
2581	COFFIN & CASKET INDUSTRY	119,412	16,149	-86.48%	14,668	-87.72%
2592	PARTICLE BOARD INDUSTRY	0	91,604	ERR	83,201	ERR
2599	OTHER WOOD INDUSTRIES N.E.C.	11,347,478	18,368,840	61.88%	16,683,778	47.03%
2611	WOODEN HOUSEHOLD FURNITURE INDUSTRY	24,632,632	60,094,674	143.96%	54,581,902	121.58%
2612	UPHOLSTERED HOUSEHOLD FURNITURE INDUSTRY	1,858,163	11,415,315	514.33%	10,368,134	457.98%
2619	OTHER HOUSEHOLD FURNITURE INDUSTRIES	13,165,979	38,632,265	193.42%	35,088,342	166.51%
2641	METAL OFFICE FURNITURE INDUSTRY	555,616	1,382,772	148.87%	1,255,924	126.04%
2649	OTHER OFFICE FURNITURE INDUSTRIES	2,222,480	5,531,096	148.87%	5,023,702	126.04%
2691	BED SPRING & MATTRESS INDUSTRY	1,085,500	2,141,477	97.28%	1,945,029	79.18%
2692	HOTEL, RESTAURANT & INSTITUTIONAL FURNITURE	1,631,094	7,259,949	345.10%	6,593,959	304.27%
2699	OTHER FURNITURE & FIXTURE INDUSTRIES N.E.C.	6,055,712	28,920,698	377.58%	26,267,664	333.77%
2711	PULP INDUSTRY	14,080,054	9,102,049	-35.36%	8,267,074	-41.29%
2712	NEWSPRINT INDUSTRY	820,043	16,075,581	1860.33%	14,600,891	1680.50%
2713	PAPERBOARD INDUSTRY	1,147,275	1,157,395	0.88%	1,051,222	-8.37%
2714	BUILDING BOARD INDUSTRY	301,291	340,507	13.02%	309,271	2.65%
2719	OTHER PAPER INDUSTRIES	5,106,996	66,573,217	1203.57%	60,466,137	1083.99%
2721	ASPHALT ROOFING INDUSTRY	166,780	152,614	-8.49%	138,614	-16.89%
2731	FOLDING CARTON & SET-UP BOX INDUSTRY	792,831	2,482,941	213.17%	2,255,169	184.45%
2732	CORRUGATED BOX INDUSTRY	103,213	204,093	97.74%	185,371	79.60%
2733	PAPER BAG INDUSTRY	87,814	433,733	393.92%	393,945	348.61%
2791	COATED & TREATED PAPER INDUSTRY	13,790,527	53,775,520	289.95%	48,842,434	254.17%
2792	STATIONERY PAPER PRODUCTS INDUSTRY	1,693,363	11,355,177	570.57%	10,313,512	509.06%
2793	PAPER CONSUMER PRODUCTS INDUSTRIES	1,048,015	4,969,056	374.14%	4,513,221	330.64%
2799	OTHER CONVERTED PAPER PRODUCTS INDUSTRIES N.E.C.	1,659,019	5,619,106	238.70%	5,103,639	207.63%
2811	BUSINESS FORMS PRINTING INDUSTRY	724,802	1,829,179	152.37%	1,661,380	129.22%
2819	OTHER COMMERCIAL PRINTING INDUSTRIES	21,853,748	38,608,871	76.67%	35,067,094	60.46%
2821	PLATEMAKING, TYPESETTING & BINDERY INDUSTRY	3,565,134	9,876,592	177.03%	8,970,565	151.62%
2831	BOOK PUBLISHING INDUSTRY	31,702,165	63,840,080	101.37%	57,983,724	82.90%
2839	OTHER PUBLISHING INDUSTRIES	5,977,392	10,106,842	69.08%	9,179,693	53.57%
2911	FERRO-ALLOYS INDUSTRY	28,432,121	37,867,733	33.19%	34,393,945	20.97%
2912	STEEL FOUNDRIES	880,227	1,694,073	92.46%	1,538,668	74.80%
2919	OTHER PRIMARY STEEL INDUSTRIES	329,629,526	386,490,696	17.25%	351,036,054	6.49%
2921	STEEL PIPE & TUBE INDUSTRY	33,306,687	35,140,412	5.51%	31,916,814	-4.17%
2941	IRON FOUNDRIES	24,072,338	27,065,022	12.43%	24,582,218	2.12%
2951	PRIMARY PRODUCTION OF ALUMINUM INDUSTRY	3,174,299	3,441,302	8.41%	3,125,615	-1.53%
2959	OTHER PRIMARY SMELTING & REFINING OF NON-FERROUS METAL	173,899,550	239,959,800	37.99%	217,947,139	25.33%
2961	ALUMINUM ROLLING, CASTING & EXTRUDING INDUSTRY	21,067,912	76,414,426	262.71%	69,404,565	229.43%
2971	COPPER & COPPER ALLOY ROLLING, CASTING & EXTRUDING	14,545,241	22,151,785	52.30%	20,119,696	38.32%

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2999	OTHER ROLLED, CAST & EXTRUDED NON-FERROUS METAL PROD.	10,992,715	9,996,657	-9.06%	9,079,616	-17.40%
3011	POWER BOILER & HEAT EXCHANGER INDUSTRY	4,286,949	6,655,383	55.25%	6,044,853	41.01%
3021	METAL TANKS (HEAVY GAUGE) INDUSTRY	232,312	1,127,229	385.22%	1,023,823	340.71%
3022	PLATE WORK INDUSTRY	3,252,597	1,438,320	-55.78%	1,306,376	-59.84%
3029	OTHER FABRICATED STRUCTURAL METAL PROD. IND.	1,178,079	3,313,129	181.23%	3,009,200	155.43%
3031	METAL DOOR & WINDOW INDUSTRY	252,403	1,384,450	448.51%	1,257,448	398.19%
3032	PREFABRICATED PORTABLE METAL BUILDINGS INDUSTRY	29,527	574,405	1845.36%	521,712	1666.90%
3039	OTH. ORNAMENTAL & ARCHITECTURAL METAL PROD. IND.	396,287	2,602,558	556.74%	2,363,813	496.49%
3042	METAL CLOSURE & CONTAINER INDUSTRY	9,220,500	21,993,649	138.53%	19,976,066	116.65%
3049	OTHER STAMPED & PRESSED METAL PRODUCTS INDUSTRIES	70,861,544	63,215,704	-10.79%	57,416,625	-18.97%
3051	UPHOLSTERY & COIL SPRING INDUSTRY	40,911	465,713	1038.36%	422,991	933.93%
3052	WIRE & WIRE ROPE INDUSTRY	17,864,824	27,861,895	55.96%	25,305,990	41.65%
3053	INDUSTRIAL FASTENER INDUSTRY	15,702,211	40,184,456	155.92%	36,498,144	132.44%
3059	OTHER WIRE PRODUCTS INDUSTRIES	8,376,435	23,505,062	180.61%	21,348,830	154.87%
3061	BASIC HARDWARE INDUSTRY	21,171,277	62,609,064	195.73%	56,865,635	168.60%
3062	METAL DIES, MOULDS & PATTERNS INDUSTRY	1,605,251	21,391,913	1232.62%	19,429,530	1110.37%
3063	HAND TOOL & IMPLEMENT INDUSTRY	41,128,211	73,194,337	77.97%	66,479,870	61.64%
3069	OTHER HARDWARE & CUTLERY INDUSTRIES	49,678,521	86,272,523	73.66%	78,358,332	57.73%
3071	HEATING EQUIPMENT INDUSTRY	3,347,990	11,251,712	236.07%	10,219,539	205.24%
3091	METAL PLUMBING FIXTURES & FITTINGS INDUSTRIES	5,346,971	31,693,566	492.74%	28,786,163	438.36%
3092	METAL VALVE INDUSTRY	28,638,942	32,950,698	15.06%	29,927,973	4.50%
3099	OTHER METAL FABRICATING INDUSTRIES N.E.C	67,926,017	85,362,474	25.67%	77,531,766	14.14%
3111	AGRICULTURAL IMPLEMENT INDUSTRY	39,517,926	118,593,934	200.10%	107,714,745	172.57%
3121	COMMERCIAL REFRIGERATION & AIR CONDITIONING EGP.	22,532,556	49,464,513	119.52%	44,926,896	99.39%
3191	COMPRESSOR, PUMP & INDUSTRIAL FAN INDUSTRY	16,933,307	28,998,479	71.25%	26,338,310	55.54%
3192	CONSTRUCTION & MINING MACHINERY & MATERIALS HDLNG EGP.	106,375,050	348,697,842	227.80%	316,710,120	197.73%
3193	SAWMILL & WOODWORKING MACHINERY INDUSTRY	13,261,588	47,383,330	257.30%	43,036,630	224.52%
3194	TURBINE & MECHANICAL POWER TRANSMISSION EGP.	46,738,341	69,397,052	48.48%	63,030,928	34.86%
3199	OTHER MACHINERY & EQUIPMENT INDUSTRIES N.E.C.	459,200,696	1,172,907,970	155.42%	1,065,311,508	131.99%
3211	AIRCRAFT & AIRCRAFT PARTS INDUSTRY	71,918,093	142,364,019	97.95%	129,304,286	79.79%
3231	MOTOR VEHICLE INDUSTRY	5,029,143	77,593,020	1442.87%	70,475,041	1301.33%
3241	TRUCK & BUS BODY INDUSTRY	0	84,183	ERR	76,460	ERR
3242	COMMERCIAL TRAILER INDUSTRY	781	0	-100.00%	0	-100.00%
3243	NON-COMMERCIAL TRAILER INDUSTRY	14,449	287,560	1890.17%	261,181	1707.60%
3244	MOBILE HOME INDUSTRY	0	0	ERR	0	ERR
3251	MOTOR VEHICLE ENGINE & ENGINE PARTS INDUSTRY	32,619,522	569,571,939	1646.11%	517,322,379	1485.93%
3252	MOTOR VEHICLE WIRING ASSEMBLIES INDUSTRY	6,680,559	23,242,994	247.92%	21,110,803	216.00%
3253	MOTOR VEHICLES STAMPINGS INDUSTRY	19,337,243	130,030,383	572.43%	118,102,074	510.75%
3254	MOTOR VEHICLE STEERING & SUSPENSION PARTS IND.	12,891,490	86,686,916	572.44%	78,734,710	510.75%
3255	MOTOR VEHICLE WHEEL & BRAKE INDUSTRY	5,156,584	34,674,755	572.44%	31,493,874	510.75%
3256	PLASTIC PARTS & ACCESSORIES FOR MOTOR VEHICLES IND.	1,289,133	8,668,673	572.44%	7,873,454	510.76%

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3257	MOTOR VEHICLE FABRIC ACCESSORIES INDUSTRY	1,289,133	8,668,673	572.44%	7,873,454	510.76%
3259	OTHER MOTOR VEHICLE ACCESSORIES, PARTS & ASSEMBLIES	94,422,196	606,969,157	540.71%	549,472,441	481.93%
3261	RAILROAD ROLLING STOCK INDUSTRY	5,666,573	13,987,521	146.84%	12,704,379	124.20%
3271	SHIPBUILDING & REPAIR INDUSTRY	1,325,047	797,505	-39.81%	724,346	-45.33%
3281	BOATBUILDING & REPAIR INDUSTRY	12,675,010	16,521,711	30.35%	15,006,095	18.39%
3299	OTHER TRANSPORTATION EQUIPMENT INDUSTRIES	26,127,838	6,793,663	-74.00%	6,170,448	-76.38%
3311	SMALL ELECTRICAL APPLIANCE INDUSTRY	71,665,566	163,164,019	127.67%	148,196,203	106.79%
3321	MAJOR APPLIANCE INDUSTRY (ELECTRIC & NON-ELECTRIC)	33,955,646	96,503,370	184.20%	87,650,654	158.13%
3331	LIGHTING FIXTURE INDUSTRY	8,084,517	35,523,910	339.41%	32,265,132	299.10%
3332	ELECTRIC LAMP & SHADE INDUSTRY (EXCEPT BULB & TUBE)	1,241,293	8,611,200	593.73%	7,821,253	530.09%
3333	ELECTRIC LAMP (BULB & TUBE) INDUSTRY	14,050,577	37,451,762	166.55%	34,016,133	142.10%
3341	RECORD PLAYER, RADIO & TELEVISION RECEIVER IND.	356,889,515	556,817,372	56.02%	505,737,849	41.71%
3351	TELECOMMUNICATION EQUIPMENT INDUSTRY	49,579,248	259,221,735	422.84%	235,442,084	374.88%
3352	ELECTRONIC PARTS & COMPONENTS INDUSTRY	116,076,042	280,523,535	141.67%	254,789,768	119.50%
3359	OTH. COMMUNICATIONS & ELECTRONIC EQUIPMENT INDUSTRIES	14,559,262	64,007,309	339.63%	58,135,612	299.30%
3361	ELECTRONIC COMPUTING & PERIPHERAL EQUIPMENT INDUSTRY	90,566,075	563,186,295	521.85%	511,522,520	464.81%
3362	ELECTRONIC OFFICE, STORE & BUSINESS MACHINE INDUSTRY	61,371,635	83,669,342	36.33%	75,993,953	23.83%
3369	OTH. OFFICE, STORE & BUSINESS MACHINE INDUSTRIES	63,864,168	190,723,599	198.64%	173,227,610	171.24%
3371	ELECTRICAL TRANSFORMER INDUSTRY	2,504,075	9,159,244	265.77%	8,319,023	232.22%
3372	ELECTRICAL SWITCHGEAR & PROTECTIVE EQUIP. IND.	8,154,919	16,921,932	107.51%	15,369,602	88.47%
3379	OTH. ELECTRICAL INDUSTRIAL EQUIPMENT INDUSTRIES	40,216,347	71,283,094	77.25%	64,743,955	60.99%
3381	COMMUNICATIONS & ENERGY WIRE & CABLE IND.	1,693,998	4,428,054	161.40%	4,021,847	137.42%
3391	BATTERY INDUSTRY	8,957,419	30,751,121	243.30%	27,930,173	211.81%
3392	NON-CURRENT CARRYING WIRING DEVICES INDUSTRY	636,531	1,007,554	58.29%	915,126	43.77%
3399	OTHER ELECTRICAL PRODUCTS INDUSTRIES N.E.C.	8,691,150	21,124,494	143.06%	19,186,643	120.76%
3511	CLAY PRODUCTS INDUSTRY (FROM DOMESTIC CLAY)	32,009,131	68,952,700	115.42%	62,627,339	95.65%
3512	CLAY PRODUCTS INDUSTRY (FROM IMPORTED CLAY)	78,794,409	85,606,109	8.64%	77,753,051	-1.32%
3521	HYDRAULIC CEMENT INDUSTRY	269,207	62,035	-76.96%	56,344	-79.07%
3541	CONCRETE PIPE INDUSTRY	111	723	551.35%	657	491.60%
3542	STRUCTURAL CONCRETE PRODUCTS INDUSTRY	1,235	7,987	546.72%	7,254	487.39%
3549	OTHER CONCRETE PRODUCTS INDUSTRIES	9,892	63,908	546.06%	58,045	486.79%
3561	PRIMARY GLASS & GLASS CONTAINERS INDUSTRY	6,411,727	15,530,992	142.23%	14,106,260	120.01%
3562	GLASS PRODUCTS INDUSTRY (EXCEPT GLASS CONTAINERS)	28,457,475	61,277,667	115.33%	55,656,373	95.58%
3571	ABRASIVES INDUSTRY	10,050,287	22,225,239	121.14%	20,186,411	100.85%
3581	LIME INDUSTRY	0	0	ERR	0	ERR
3591	REFRACATORIES INDUSTRY	11,562,063	19,754,845	70.86%	17,942,639	55.19%
3592	ASBESTOS PRODUCTS INDUSTRY	1,739,925	1,640,356	-5.72%	1,489,878	-14.37%
3593	GYPNUM PRODUCTS INDUSTRY	55,698	50,244	-9.79%	45,635	-18.07%
3594	NON-METALLIC MINERAL INSULATING MATERIALS INDUSTRY	382,778	229,689	-39.99%	208,619	-45.50%
3599	OTH. NON-METALLIC MINERAL PRODUCTS INDUSTRIES N.E.C.	5,067,554	31,497,209	521.55%	28,607,819	464.53%
3611	REFINED PETROLEUM PRODUCTS INDUSTRIES (EXCEPT LUBRICATING OIL)	8,572,193	27,723,239	223.41%	25,180,054	193.74%

Table 14

ONTARIO AND CANADIAN IMPORTS FROM OTHER COUNTRIES, EXCLUDING
THE UNITED STATES, BY MANUFACTURING INDUSTRIES, 1981 AND 1987

3612	LUBRICATING OIL & GREASE INDUSTRY	7,994,370	8,908,829	11.44%	8,091,579	1.22%
3699	OTHER PETROLEUM & COAL PRODUCTS INDUSTRIES	19,178,304	8,575,056	-55.29%	7,788,425	-59.39%
3711	INDUSTRIAL INORGANIC CHEMICAL INDUSTRIES M.E.C.	32,401,197	53,999,740	66.66%	49,046,085	51.37%
3712	INDUSTRIAL ORGANIC CHEMICAL INDUSTRIES M.E.C.	156,558,225	272,106,746	73.81%	247,145,092	57.86%
3721	CHEMICAL FERTILIZER & FERTILIZER MATERIALS INDUSTRY	1,420,725	9,695,355	582.42%	8,805,954	519.82%
3722	MIXED FERTILIZER INDUSTRY	137,324	678,077	393.78%	615,874	348.48%
3729	OTHER AGRICULTURAL CHEMICAL INDUSTRIES	13,052,016	20,500,104	57.06%	18,619,531	42.66%
3731	PLASTIC & SYNTHETIC RESIN INDUSTRY	22,493,881	75,851,142	237.21%	68,892,954	206.27%
3741	PHARMACEUTICAL & MEDICINE INDUSTRY	98,713,522	282,646,599	186.33%	256,718,074	160.06%
3751	PAINT & VARNISH INDUSTRY	3,206,077	12,163,453	279.39%	11,047,641	244.58%
3761	SOAP & CLEANING COMPOUNDS INDUSTRY	2,677,232	8,192,494	206.01%	7,440,957	177.93%
3771	TOILET PREPARATIONS INDUSTRY	7,569,864	37,277,685	392.45%	33,858,025	347.27%
3791	PRINTING INK INDUSTRY	635,442	917,356	44.37%	833,203	31.12%
3792	ADHESIVES INDUSTRY	2,637,758	6,419,275	143.36%	5,830,404	121.04%
3799	OTHER CHEMICAL PRODUCTS INDUSTRIES M.E.C.	39,344,891	83,159,765	111.36%	75,531,122	91.97%
3911	INDICATING, RECORDING & CONTROLLING INSTR. INDUS.	30,827,877	90,403,482	193.25%	82,110,338	166.35%
3912	OTH. INSTRUMENTS & RELATED PRODUCTS INDUSTRY	265,726,782	515,591,540	94.03%	468,293,860	76.23%
3913	CLOCK & WATCH INDUSTRY	126,414,699	85,381,499	-32.46%	77,549,045	-38.66%
3914	OPHTHALMIC GOODS INDUSTRY	20,777,345	59,839,435	188.00%	54,350,077	161.58%
3921	JEWELLERY & SILVERWARE INDUSTRY	92,345,422	192,783,016	108.76%	175,098,107	89.61%
3931	SPORTING GOODS INDUSTRY	64,180,072	137,593,596	114.39%	124,971,477	94.72%
3932	TOYS AND GAMES INDUSTRY	94,675,959	191,051,918	101.80%	173,525,811	83.28%
3971	SIGN & DISPLAY INDUSTRY	1,913,950	5,213,100	172.37%	4,734,877	147.39%
3991	BROOM, BRUSH & MOP INDUSTRY	4,807,137	12,776,820	165.79%	11,604,741	141.41%
3992	BUTTON, BUCKLE & CLOTHES FASTENER INDUSTRY	2,870,164	4,231,923	47.45%	3,843,708	33.92%
3993	FLOOR TILE, LINOLEUM & COATED FABRIC INDUSTRY	7,144,992	21,734,418	204.19%	19,740,616	176.29%
3994	MUSICAL INSTRUMENT & SOUND RECORDING INDUSTRY	30,467,508	78,203,740	156.68%	71,029,737	133.13%
3999	OTHER MANUFACTURED PRODUCTS INDUSTRIES M.E.C.	90,603,075	210,460,215	132.29%	191,153,692	110.98%
TOTAL MANUFACTURING INDUSTRIES		6,022,271,146	13,776,769,620	128.76%	12,512,960,599	107.78%

NOTE: Deflator used for 1987 Imports was 110.1.

SOURCE: Import Trade, Statistics Canada Catalogue 65-203, 1988.

ONTARIO AND CANADIAN EXPORTS TO ALL COUNTRIES
BY MANUFACTURING INDUSTRIES, 1981 AND 1987

CANADIAN \$

1980 SIC CODE	INDUSTRY	ONTARIO EXPORTS 1981	ONTARIO EXPORTS 1987	% INCREASE IN REAL DOLLARS	ONTARIO EXPORTS 1981 CONSTANT \$	% INCREASE 1981 CONSTANT DOLLARS
1011	MEAT & MEAT PRODUCTS IND. (EXCEPT POULTRY)	215,814,265	400,864,623	85.75%	342,326,749	58.62%
1012	POULTRY PRODUCTS INDUSTRY	3,089,285	1,879,798	-39.15%	1,605,293	-48.04%
1021	FISH PRODUCTS INDUSTRY	39,945,477	69,520,535	74.04%	59,368,518	48.62%
1031	CANNED & PRESERVED FRUIT & VEGETABLE INDUSTRY	29,648,751	45,292,301	52.76%	38,678,310	30.46%
1032	FROZEN FRUIT & VEGETABLE INDUSTRY	21,830,759	30,512,731	39.77%	26,056,986	19.36%
1041	FLUID MILK INDUSTRY	141,098	507,620	259.76%	433,493	207.23%
1049	OTHER DAIRY PRODUCTS INDUSTRIES	42,383,864	34,919,617	-17.61%	29,820,339	-29.64%
1051	CEREAL GRAIN FLOUR INDUSTRY	15,634,764	16,857,603	7.82%	14,395,904	-7.92%
1052	PREPARED FLOUR MIXES & PREPARED CEREAL FOODS INDUSTRY	7,099,633	15,969,011	124.93%	13,637,072	92.08%
1053	FEED INDUSTRY	66,612,382	57,438,281	-13.77%	49,050,624	-26.36%
1061	VEGETABLE OIL MILLS (EXCEPT CORN OIL)	49,704,817	26,457,641	-46.77%	22,594,057	-54.54%
1071	BISCUIT INDUSTRY	18,789,751	62,212,978	231.10%	53,128,077	182.75%
1072	BREAD & OTHER BAKERY PRODUCTS INDUSTRY	25,915,112	60,638,554	133.99%	51,783,564	99.82%
1081	CANE AND BEET SUGAR INDUSTRY	10,943,837	89,070,142	713.88%	76,063,315	595.03%
1082	CHEWING GUM INDUSTRY	7,687,646	11,078,167	44.10%	9,460,433	23.06%
1083	SUGAR & CHOCOLATE CONFECTIONERY INDUSTRY	16,951,910	82,886,480	388.95%	70,782,647	317.55%
1091	TEA & COFFEE INDUSTRY	3,333,810	41,686,727	1150.42%	35,599,254	967.82%
1092	DRY PASTA PRODUCTS INDUSTRY	13,340,157	14,965,191	12.18%	12,779,839	-4.20%
1094	MALT & MALT FLOUR INDUSTRY	0	0	ERR	0	ERR
1099	OTHER FOOD PRODUCTS INDUSTRIES M.E.C.	78,996,525	113,634,915	43.85%	97,040,918	22.84%
1111	SOFT DRINK INDUSTRY	4,438,668	11,548,429	160.18%	9,862,023	122.18%
1121	DISTILLERY PRODUCTS INDUSTRY	241,507,647	258,494,835	7.03%	220,747,084	-8.60%
1131	BREWERY PRODUCTS INDUSTRY	50,107,913	88,407,259	76.43%	75,497,232	50.67%
1141	WINE INDUSTRY	626,471	782,997	24.99%	668,657	6.73%
1211	LEAD TOBACCO INDUSTRY	120,605,487	79,016,222	-34.48%	67,477,559	-44.05%
1221	TOBACCO PRODUCTS INDUSTRY	4,727,492	9,751,273	106.27%	8,327,304	76.15%
1511	TIRE AND TUBE INDUSTRY	239,722,113	351,426,062	46.60%	300,107,653	25.19%
1521	RUBBER HOSE & BELTING INDUSTRY	22,487,148	40,317,212	79.29%	34,429,728	53.11%
1599	OTHER RUBBER PRODUCTS INDUSTRIES	9,402,679	31,425,288	234.22%	26,836,284	185.41%
1611	FOAMED & EXPANDED PLASTIC PRODUCTS INDUSTRY	1,840,741	12,019,632	552.98%	10,264,417	457.62%
1621	PLASTIC PIPE AND PIPE FITTINGS INDUSTRY	8,597,968	19,810,138	130.40%	16,917,283	96.76%
1631	PLASTIC FILM & SHEETING INDUSTRY	57,090,791	109,315,246	91.48%	93,352,046	63.52%
1691	PLASTIC BAG INDUSTRY	3,874,355	36,849,645	851.12%	31,468,527	712.23%

1699	OTHER PLASTIC PRODUCTS INDUSTRIES M.E.C.	90,267,280	341,028,509	277.80%	291,228,445	222.63%
1711	LEATHER TANNERIES	30,942,025	29,351,230	-5.14%	25,065,098	-18.99%
1712	FOOTWEAR INDUSTRY	23,579,744	33,677,837	42.83%	28,759,895	21.97%
1713	LUGGAGA, PURSE & HANDBAG INDUSTRY	2,032,571	1,049,416	-48.37%	896,171	-55.91%
1719	OTHER LEATHER & ALLIED PRODUCTS INDUSTRIES	2,764,992	9,760,285	253.00%	8,335,000	201.45%
1811	MAN-MADE FIBRE & FILAMENT YARN INDUSTRY	88,985,580	126,983,583	42.70%	108,440,293	21.86%
1821	WOOL YARN & WOVEN CLOTH INDUSTRY	1,187,826	4,648,989	291.39%	3,970,102	234.23%
1829	OTHER SPUN YARN & WOVEN CLOTH INDUSTRIES	34,417,477	54,318,574	57.82%	46,386,485	34.78%
1831	BROAD KNITTED FABRIC INDUSTRY	1,860,681	3,376,851	81.48%	2,883,733	54.98%
1911	NATURAL FIBRES PROCESSING & FELT PROD. IND.	9,816,751	25,152,345	156.22%	21,479,372	118.80%
1921	CARPET, MAT & RUG INDUSTRY	17,210,671	39,346,005	128.61%	33,600,346	95.23%
1931	CANVAS & RELATED PRODUCTS INDUSTRY	754,604	1,267,350	67.95%	1,082,280	43.42%
1991	NARROW FABRIC INDUSTRY	637,048	1,727,717	171.21%	1,475,420	131.60%
1993	HOUSEHOLD PRODUCTS OF TEXTILE MATERIALS INDUSTRY	3,188,973	7,218,432	126.36%	6,164,331	93.30%
1994	HYGIENE PRODUCTS OF TEXTILE MATERIALS INDUSTRY	4,589,897	2,169,232	-52.74%	1,852,461	-59.64%
1995	TIRE CORD FABRIC INDUSTRY	3,367,055	10,101,003	200.00%	8,625,963	156.19%
1999	OTHER TEXTILE PRODUCTS INDUSTRIES M.E.C.	11,674,672	24,492,957	109.80%	20,916,274	79.16%
2431	MEN'S & BOYS' COAT INDUSTRY	362,684	499,090	37.61%	426,208	17.52%
2432	MEN'S & BOYS' SUIT & JACKET INDUSTRY	4,291,443	8,660,573	101.81%	7,395,878	72.34%
2433	MEN'S & BOYS' PANTS INDUSTRY	4,383,110	4,666,338	6.46%	3,984,917	-9.08%
2434	MEN'S & BOYS' SHIRT & UNDERWEAR INDUSTRY	760,252	2,708,259	256.23%	2,312,775	204.21%
2441	WOMEN'S COAT & JACKET INDUSTRY	4,685,788	3,899,136	-16.79%	3,329,749	-28.94%
2442	WOMEN'S SPORTSWEAR INDUSTRY	2,704,864	13,771,624	409.14%	11,760,567	334.79%
2443	WOMEN'S DRESS INDUSTRY	409,533	1,705,555	316.46%	1,456,494	255.65%
2444	WOMEN'S BLOUSE & SHIRT INDUSTRY	206,548	607,269	194.01%	518,590	151.07%
2451	CHILDREN'S CLOTHING INDUSTRY	1,740,248	1,902,953	9.35%	1,625,067	-6.62%
2491	SWEATER INDUSTRY	1,255,246	746,223	-40.55%	637,253	-49.23%
2492	OCCUPATIONAL CLOTHING INDUSTRY	1,162,238	1,885,046	62.19%	1,609,775	38.51%
2493	GLOVE INDUSTRY	418,336	681,470	62.90%	581,956	39.11%
2494	HOSIERY INDUSTRY	545,490	2,341,764	329.30%	1,999,798	266.61%
2495	FUR GOODS INDUSTRY	20,894,308	34,405,060	64.66%	29,380,922	40.62%
2496	FOUNDATION GARMENT INDUSTRY	379,936	549,606	44.66%	469,348	23.53%
2499	OTHER CLOTHING & APPAREL INDUSTRIES M.E.C.	14,084,298	22,247,287	49.47%	18,998,537	27.64%
2511	SHINGLE & SHAKE INDUSTRY	260,400	1,438,442	452.40%	1,228,388	371.73%
2512	SAWMILL & PLANING MILL PRODUCTS INDUSTRY (EXCEPT SHINGLES &	471,837,325	725,024,955	53.66%	619,150,260	31.22%
2521	HARWOOD VENEER & PLYWOOD INDUSTRY	51,409,693	80,743,682	57.06%	68,952,760	34.12%
2522	SOFTWOOD VENEER & PLYWOOD INDUSTRY	2,024,491	1,876,764	-7.30%	1,802,702	-20.83%
2541	PREFABRICATED WOODEN BUILDINGS INDUSTRY	11,937,715	21,160,161	77.25%	18,070,163	51.37%
2542	WOODEN KITCHEN CABINET & BATHROOM VANITY IND.	0	525,942	ERR	449,139	ERR
2543	WOODEN DOOR & WINDOW INDUSTRY	4,873,826	25,655,103	426.39%	21,908,713	349.52%
2549	OTHER MILLWORK INDUSTRIES	11,069,066	24,794,436	124.00%	21,173,728	91.29%

ONTARIO AND CANADIAN EXPORTS TO ALL COUNTRIES
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2561	WOODEN BOX & PALLET INDUSTRY	2,543,838	2,678,554	5.30%	2,287,407	-10.08%
2592	PARTICLE BOARD INDUSTRY	0	53,848,707	ERR	45,985,232	ERR
2599	OTHER WOOD INDUSTRIES M.E.C.	72,324,550	51,562,379	-28.71%	44,032,775	-39.12%
2611	WOODEN HOUSEHOLD FURNITURE INDUSTRY	16,878,034	62,305,820	269.15%	53,207,361	215.25%
2612	UPHOLSTERED HOUSEHOLD FURNITURE INDUSTRY	9,159,484	74,088,693	708.87%	63,269,593	590.75%
2619	OTHER HOUSEHOLD FURNITURE INDUSTRIES	4,503,302	19,118,831	324.55%	16,326,927	262.55%
2641	METAL OFFICE FURNITURE INDUSTRY	94,237,014	208,147,839	120.88%	177,752,211	88.62%
2649	OTHER OFFICE FURNITURE INDUSTRIES	17,198,331	47,435,785	175.82%	40,508,783	135.54%
2691	BED SPRING & MATTRESS INDUSTRY	464,497	1,735,651	273.66%	1,482,196	219.10%
2692	HOTEL, RESTAURANT & INSTITUTIONAL FURNITURE	11,929,859	38,341,960	221.39%	32,742,921	174.46%
2699	OTHER FURNITURE & FIXTURE INDUSTRIES M.E.C.	34,006,959	128,450,763	277.72%	109,693,222	222.56%
2711	PULP INDUSTRY	614,782,330	700,740,235	13.98%	598,411,815	-2.66%
2712	NEWSPRINT INDUSTRY	836,315,167	1,198,881,338	43.35%	1,023,809,853	22.42%
2713	PAPERBOARD INDUSTRY	31,460,858	41,117,468	30.69%	35,113,124	11.61%
2714	BUILDING BOARD INDUSTRY	1,984,303	8,626,369	334.73%	7,366,669	271.25%
2719	OTHER PAPER INDUSTRIES	255,688,040	501,012,383	95.95%	427,850,028	67.33%
2721	ASPHALT ROOFING INDUSTRY	33,591,074	58,032,266	72.76%	49,557,870	47.53%
2731	FOLDING CARTON & SET-UP BOX INDUSTRY	5,749,192	35,245,976	513.06%	30,099,040	423.54%
2732	CORRUGATED BOX INDUSTRY	815,151	1,864,683	128.75%	1,592,385	95.35%
2733	PAPER BAG INDUSTRY	1,136,019	3,587,291	215.78%	3,063,442	169.66%
2791	COATED & TREATED PAPER INDUSTRY	60,160,566	154,115,682	156.17%	131,610,318	118.77%
2792	STATIONERY PAPER PRODUCTS INDUSTRY	15,790,333	22,774,093	44.23%	19,448,414	23.17%
2793	PAPER CONSUMER PRODUCTS INDUSTRY	26,194,960	7,890,873	-69.88%	6,738,576	-74.28%
2799	OTHER CONVERTED PAPER PRODUCTS INDUSTRIES M.E.C.	2,330,330	13,588,103	483.10%	11,603,845	397.95%
2811	BUSINESS FORMS PRINTING INDUSTRY	4,709,525	12,395,040	163.19%	10,585,004	124.76%
2819	OTHER COMMERCIAL PRINTING INDUSTRIES	33,333,798	97,530,571	192.59%	83,288,276	149.86%
2821	PLATENAKING, TYPESETTING & BINDERY INDUSTRY	2,451,470	1,545,590	-36.95%	1,319,889	-46.16%
2831	BOOK PUBLISHING INDUSTRY	41,956,546	51,284,598	22.23%	43,795,558	4.38%
2839	OTHER PUBLISHING INDUSTRIES	10,489,115	12,821,128	22.23%	10,948,871	4.38%
2841	NEWSPAPER, MAGAZINE & PERIODICAL (COMB. PUBLISHING & PRINTING	27,540,331	158,356,395	475.00%	135,231,763	391.03%
2911	FERRO-ALLOYS INDUSTRY	13,654,010	5,541,238	-59.42%	4,732,056	-65.34%
2912	STEEL FOUNDRIES	5,423,097	13,683,995	152.33%	11,685,734	115.48%
2919	OTHER PRIMARY STEEL INDUSTRIES	1,033,539,426	1,382,806,385	33.79%	1,180,876,503	14.26%
2921	STEEL PIPE & TUBE INDUSTRY	391,527,282	300,709,282	-23.20%	256,796,996	-34.41%
2941	IRON FOUNDRIES	92,334,344	120,216,803	30.20%	102,661,659	11.18%
2951	PRIMARY PRODUCTION OF ALUMINUM INDUSTRY	33,269,019	39,006,131	17.24%	33,310,103	0.12%
2959	OTHER PRIMARY SMELTING & REFINING OF NON-FERROUS METAL	2,399,395,124	2,198,226,694	-8.38%	1,877,221,771	-21.76%
2961	ALUMINUM ROLLING, CASTING & EXTRUDING INDUSTRY	100,008,474	177,352,248	77.34%	151,453,670	51.44%
2971	COPPER & COPPER ALLOY ROLLING, CASTING & EXTRUDING	68,094,564	103,375,751	51.81%	88,279,890	29.64%
2999	OTHER ROLLED, CAST & EXTRUDED NON-FERROUS METAL PROD.	109,765,798	115,812,551	5.51%	98,900,556	-9.90%
3011	POWER BOILER & HEAT EXCHANGER INDUSTRY	71,243,032	123,777,189	73.74%	105,702,126	48.37%

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3021	METAL TANKS (HEAVY GAUGE) INDUSTRY	6,635,154	12,298,757	85.36%	10,502,781	58.29%
3022	PLATE WORK INDUSTRY	3,367,029	9,293,888	176.03%	7,936,711	135.72%
3029	OTHER FABRICATED STRUCTURAL METAL PROD. IND.	11,780,954	16,303,028	38.38%	13,922,313	18.18%
3031	METAL DOOR & WINDOW INDUSTRY	5,259,273	12,392,225	135.63%	10,582,600	101.22%
3032	PREFABRICATED PORTABLE METAL BUILDINGS INDUSTRY	2,238,309	3,967,523	77.26%	3,388,149	51.37%
3039	OTH. ORNAMENTAL & ARCHITECTURAL METAL PROD. IND.	41,583,597	86,525,765	108.08%	73,890,491	77.69%
3042	METAL CLOSURE & CONTAINER INDUSTRY	23,090,534	48,570,267	110.35%	41,477,598	79.63%
3049	OTHER STAMPED & PRESSED METAL PRODUCTS INDUSTRIES	420,639,212	605,321,797	43.91%	516,927,239	22.89%
3052	WIRE & WIRE ROPE INDUSTRY	47,053,955	101,506,004	115.72%	86,683,180	84.22%
3053	INDUSTRIAL FASTENER INDUSTRY	55,684,014	84,342,431	51.47%	72,025,987	29.35%
3059	OTHER WIRE PRODUCTS INDUSTRIES	29,255,830	44,356,701	51.62%	37,879,335	29.48%
3061	BASIC HARDWARE INDUSTRY	43,942,527	115,897,405	163.75%	98,973,019	125.23%
3062	METAL DIES, MOULDS & PATTERNS INDUSTRY	134,065,521	278,388,658	107.65%	237,735,831	77.33%
3063	HAND TOOL & IMPLEMENT INDUSTRY	34,598,602	51,608,046	49.16%	44,071,773	27.38%
3069	OTHER HARDWARE & CUTLERY INDUSTRIES	31,798,470	40,802,575	28.32%	34,844,214	9.58%
3071	HEATING EQUIPMENT INDUSTRY	22,207,180	93,541,084	321.22%	79,881,370	259.71%
3091	METAL PLUMBING FIXTURES & FITTINGS INDUSTRIES	7,278,680	22,719,230	212.13%	19,401,563	166.55%
3092	METAL VALVE INDUSTRY	35,040,330	67,737,801	93.31%	57,846,115	65.08%
3099	OTHER METAL FABRICATING INDUSTRIES M.E.C	216,810,506	287,860,187	32.77%	245,824,242	13.38%
3111	AGRICULTURAL IMPLEMENT INDUSTRY	598,743,774	428,347,017	-28.46%	365,795,915	-38.91%
3121	COMMERCIAL REFRIGERATION & AIR CONDITIONING EGP.	49,868,821	97,696,888	95.91%	83,430,306	67.30%
3191	COMPRESSOR, PUMP & INDUSTRIAL FAN INDUSTRY	63,067,526	82,002,151	30.02%	70,027,456	11.04%
3192	CONSTRUCTION & MINING MACHINERY & MATERIALS HOLNG EGP.	668,052,872	1,008,002,422	50.89%	860,804,801	28.85%
3193	SAWMILL & WOODWORKING MACHINERY INDUSTRY	9,152,835	33,339,367	264.25%	28,470,851	211.06%
3194	TURBINE & MECHANICAL POWER TRANSMISSION EGP.	168,553,146	209,443,494	24.26%	178,858,663	6.11%
3199	OTHER MACHINERY & EQUIPMENT INDUSTRIES M.E.C.	690,239,737	1,134,476,652	64.36%	968,810,121	40.36%
3211	AIRCRAFT & AIRCRAFT PARTS INDUSTRY	780,681,544	1,231,061,674	57.69%	1,051,290,926	34.66%
3231	MOTOR VEHICLE INDUSTRY	7,189,009,546	18,939,523,653	163.45%	16,173,803,290	124.98%
3242	COMMERCIAL TRAILER INDUSTRY	3,957,347	10,496,442	165.24%	8,963,657	126.51%
3243	NON-COMMERCIAL TRAILER INDUSTRY	698,353	1,852,309	165.24%	1,581,818	126.51%
3251	MOTOR VEHICLE ENGINE & ENGINE PARTS INDUSTRY	756,821,139	1,949,123,288	157.54%	1,664,494,695	119.93%
3252	MOTOR VEHICLE WIRING ASSEMBLIES INDUSTRY	37,929,224	49,651,668	30.91%	42,401,083	11.79%
3259	OTHER MOTOR VEHICLE ACCESSORIES, PARTS & ASSEMBLIES	3,880,634,634	9,445,365,938	143.40%	8,066,068,265	107.85%
3261	RAILROAD ROLLING STOCK INDUSTRY	114,527,093	117,180,175	2.32%	100,068,467	-12.62%
3271	SHIPBUILDING & REPAIR INDUSTRY	9,073,995	7,318,412	-19.35%	6,249,711	-31.13%
3281	BOATBUILDING & REPAIR INDUSTRY	54,808,134	102,362,064	86.76%	87,414,231	59.49%
3299	OTHER TRANSPORTATION EQUIPMENT INDUSTRIES	91,210,460	92,976,085	1.94%	79,398,877	-12.95%
3311	SMALL ELECTRICAL APPLIANCE INDUSTRY	33,240,611	63,025,268	89.60%	53,821,749	61.92%
3321	MAJOR APPLIANCE INDUSTRY (ELECTRIC & NON-ELECTRIC)	51,562,631	90,833,501	76.16%	77,569,173	50.44%
3331	LIGHTING FIXTURE INDUSTRY	6,394,023	15,887,828	148.48%	13,567,744	112.19%
3332	ELECTRIC LAMP & SHADE INDUSTRY (EXCEPT BULB & TUBE)	871,895	2,166,504	148.48%	1,850,132	112.20%

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3333	ELECTRIC LAMP (BULB & TUBE) INDUSTRY	18,577,187	50,060,830	169.47%	42,750,495	130.12%
3341	RECORD PLAYER, RADIO & TELEVISION RECEIVER IND.	104,214,533	138,934,724	33.32%	118,646,220	13.85%
3351	TELECOMMUNICATION EQUIPMENT INDUSTRY	447,227,737	790,088,720	76.66%	674,712,827	50.87%
3352	ELECTRONIC PARTS & COMPONENTS INDUSTRY	265,269,089	419,135,503	58.00%	357,929,550	34.93%
3359	OTH. COMMUNICATIONS & ELECTRONIC EQUIPMENT INDUSTRIES	54,336,249	115,522,131	112.61%	98,652,546	81.56%
3361	ELECTRONIC COMPUTING & PERIPHERAL EQUIPMENT INDUSTRY	736,330,728	1,822,210,849	147.47%	1,556,115,157	111.33%
3362	ELECTRONIC OFFICE, STORE & BUSINESS MACHINE INDUSTRY	6,860	425	-93.80%	363	-94.71%
3369	OTH. OFFICE, STORE & BUSINESS MACHINE INDUSTRIES	123,041,589	94,280,016	-23.38%	80,512,396	-34.56%
3371	ELECTRICAL TRANSFORMER INDUSTRY	60,210,245	91,935,057	52.69%	78,509,869	30.39%
3372	ELECTRICAL SWITCHGEAR & PROTECTIVE EQUIP. IND.	42,505,333	32,250,222	-24.13%	27,540,753	-35.21%
3379	OTH. ELECTRICAL INDUSTRIAL EQUIPMENT INDUSTRIES	99,927,922	176,680,404	76.81%	150,879,935	50.99%
3381	COMMUNICATIONS & ENERGY WIRE & CABLE IND.	74,441,594	112,703,701	51.40%	96,245,688	29.29%
3391	BATTERY INDUSTRY	28,481,379	30,013,508	5.38%	25,630,664	-10.01%
3392	NON-CURRENT CARRYING WIRING DEVICES INDUSTRY	5,940,628	10,859,238	82.80%	9,273,474	56.10%
3399	OTHER ELECTRICAL PRODUCTS INDUSTRIES M.E.C.	45,095,687	116,499,359	158.34%	99,487,070	120.61%
3511	CLAY PRODUCTS INDUSTRY (FROM DOMESTIC CLAY)	910,681	6,191,686	579.90%	5,287,520	480.61%
3512	CLAY PRODUCTS INDUSTRY (FROM IMPORTED CLAY)	21,512,493	50,063,357	132.72%	42,752,653	98.73%
3521	HYDRAULIC CEMENT INDUSTRY	35,280,738	72,481,786	105.44%	61,897,341	75.44%
3542	STRUCTURAL CONCRETE PRODUCTS INDUSTRIES	10,447,666	31,086,713	197.55%	26,547,150	154.10%
3549	OTHER CONCRETE PRODUCTS INDUSTRIES	21,776,456	25,793,211	18.45%	22,026,653	1.15%
3551	READY-MIX CONCRETE INDUSTRY	1,075,374	1,273,730	18.45%	1,087,728	1.15%
3561	PRIMARY GLASS & GLASS CONTAINERS INDUSTRY	41,878,832	70,028,887	67.22%	59,802,636	42.80%
3571	ABRASIVES INDUSTRY	108,626,907	158,095,948	45.54%	135,009,349	24.29%
3581	LIME INDUSTRY	17,318,720	5,070,390	-70.72%	4,329,966	-75.00%
3591	REFRACTORIES INDUSTRY	9,041,827	17,720,610	95.98%	15,132,886	67.37%
3592	ASBESTOS PRODUCTS INDUSTRY	8,213,855	2,465,492	-69.98%	2,105,459	-74.37%
3593	GYPNUM PRODUCTS INDUSTRY	5,243,004	60,016,710	1044.70%	51,252,528	877.54%
3594	NON-METALLIC MINERAL INSULATING MATERIALS INDUSTRY	8,850,393	22,339,746	152.42%	19,077,494	115.56%
3599	OTH. NON-METALLIC MINERAL PRODUCTS INDUSTRIES M.E.C.	3,450,814	16,428,120	376.07%	14,029,137	306.55%
3611	REFINED PETROLEUM PRODUCTS INDUSTRIES (EXCEPT LUBRICATING OIL	357,353,297	281,307,881	-21.28%	240,228,763	-32.78%
3612	LUBRICATING OIL & GREASE INDUSTRY	6,032,715	26,816,264	344.51%	22,900,311	279.60%
3699	OTHER PETROLEUM & COAL PRODUCTS INDUSTRIES	242,391,937	80,952,676	-66.60%	69,131,235	-71.48%
3711	INDUSTRIAL INORGANIC CHEMICAL INDUSTRIES M.E.C.	853,513,052	902,478,521	5.74%	770,690,453	-9.70%
3712	INDUSTRIAL ORGANIC CHEMICAL INDUSTRIES M.E.C.	658,487,637	572,958,345	-12.99%	489,289,791	-25.69%
3721	CHEMICAL FERTILIZER & FERTILIZER MATERIALS INDUSTRY	78,935,213	38,141,706	-51.68%	32,571,909	-58.74%
3722	MIXED FERTILIZER INDUSTRY	13,419,660	9,149,737	-31.82%	7,813,610	-41.77%
3729	OTHER AGRICULTURAL CHEMICAL INDUSTRIES	13,230,775	21,779,551	64.61%	18,599,104	40.57%
3731	PLASTIC & SYNTHETIC RESIN INDUSTRY	402,866,266	671,319,652	66.64%	573,287,491	42.30%
3741	PHARMACEUTICAL & MEDICINE INDUSTRY	46,130,074	98,907,678	114.41%	84,464,285	83.10%
3751	PAINT & VARNISH INDUSTRY	9,192,793	18,599,413	102.33%	15,883,359	72.78%
3761	SOAP & CLEANING COMPOUNDS INDUSTRY	5,840,563	41,357,828	608.11%	35,318,384	504.71%

Table 15

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3771	TOILET PREPARATIONS INDUSTRY	11,706,368	36,799,630	214.36%	31,425,816	168.45%
3792	ADHESIVES INDUSTRY	2,705,597	10,869,004	301.72%	9,281,814	243.06%
3799	OTHER CHEMICAL PRODUCTS INDUSTRIES N.E.C.	114,286,031	231,050,955	102.17%	197,310,807	72.65%
3911	INDICATING, RECORDING & CONTROLLING INSTR. INDUS.	116,220,313	150,868,469	29.81%	128,837,292	10.86%
3912	OTH. INSTRUMENTS & RELATED PRODUCTS INDUSTRY	449,798,136	869,212,364	93.24%	742,282,121	65.03%
3913	CLOCK & WATCH INDUSTRY	38,370,028	6,475,945	-83.12%	5,530,269	-85.59%
3914	OPHTHALMIC GOODS INDUSTRY	6,300,326	22,972,205	264.62%	19,617,596	211.37%
3921	JEWELLERY & SILVERWARE INDUSTRY	48,808,978	71,138,613	45.75%	60,750,310	24.47%
3931	SPORTING GOODS INDUSTRY	51,680,807	84,173,202	62.87%	71,881,471	39.09%
3932	TOYS AND GAMES INDUSTRY	27,579,271	29,995,936	8.76%	25,615,658	-7.12%
3971	SIGN & DISPLAY INDUSTRY	5,710,007	39,922,937	599.17%	34,093,029	497.08%
3991	BROOM, BRUSH & MOP INDUSTRY	443,981	2,136,479	381.21%	1,824,491	310.94%
3992	BUTTON, BUCKLE & CLOTHES FASTENER INDUSTRY	1,066,024	2,228,247	109.02%	1,902,858	78.50%
3993	FLOOR TILE, LINOLEUM & COATED FABRIC INDUSTRY	29,570,700	84,337,558	185.21%	72,021,826	143.56%
3994	MUSICAL INSTRUMENT & SOUND RECORDING INDUSTRY	1,609,774	9,895,869	514.74%	8,450,785	424.97%
3999	OTHER MANUFACTURED PRODUCTS INDUSTRIES N.E.C.	87,975,452	209,402,062	138.02%	178,823,281	103.26%
TOTAL MANUFACTURING INDUSTRIES		31,472,536,459	58,534,403,509	85.99%	49,986,681,050	50.83%

NOTE: Deflator used for 1987 exports was 117.1.

SOURCE: Export Trade, Statistics Canada Catalogue 65-202, 1988.

ONTARIO AND CANADIAN EXPORTS TO THE UNITED STATES
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CANADIAN \$

1980 SIC CODE	INDUSTRY	ONTARIO EXPORTS 1981	ONTARIO EXPORTS 1987	% INCREASE IN REAL DOLLARS	ONTARIO EXPORTS 1981 CONSTANT \$	% INCREASE 1981 CONSTANT DOLLARS
1011	MEAT & MEAT PRODUCTS IND. (EXCEPT POULTRY)	102,769,215	226,137,097	120.04%	193,114,515	87.91%
1012	POULTRY PRODUCTS INDUSTRY	822,108	1,235,634	50.30%	1,055,196	28.35%
1021	FISH PRODUCTS INDUSTRY	30,466,429	41,245,151	35.38%	35,222,161	15.61%
1031	CANNED & PRESERVED FRUIT & VEGETABLE INDUSTRY	10,129,747	30,397,342	200.08%	25,958,447	156.26%
1032	FROZEN FRUIT & VEGETABLE INDUSTRY	8,747,537	22,285,899	154.77%	19,031,511	117.56%
1041	FLUID MILK INDUSTRY	32,189	456,467	1318.08%	389,810	1111.00%
1049	OTHER DAIRY PRODUCTS INDUSTRIES	3,090,623	8,191,384	165.04%	6,995,204	126.34%
1051	CEREAL GRAIN FLOUR INDUSTRY	5,950,494	8,477,622	42.47%	7,239,643	21.66%
1052	PREPARED FLOUR MIXES & PREPARED CEREAL FOODS INDUSTRY	4,169,805	12,253,859	193.87%	10,464,440	150.96%
1053	FEED INDUSTRY	28,619,667	51,627,653	80.39%	44,088,517	54.05%
1061	VEGETABLE OIL MILLS (EXCEPT CORN OIL)	4,737,441	18,215,957	284.51%	15,555,898	228.36%
1071	BISCUIT INDUSTRY	17,985,023	61,039,678	239.39%	52,126,113	189.83%
1072	BREAD & OTHER BAKERY PRODUCTS INDUSTRY	24,409,781	59,664,182	144.43%	50,951,479	108.73%
1081	CANE AND BEET SUGAR INDUSTRY	1,628,957	87,958,791	5299.70%	75,114,254	4511.19%
1082	CHEWING GUM INDUSTRY	3,308,741	8,193,466	147.63%	6,996,982	111.47%
1083	SUGAR & CHOCOLATE CONFECTIONERY INDUSTRY	14,279,501	81,441,440	470.34%	69,548,625	387.05%
1091	TEA & COFFEE INDUSTRY	3,149,451	41,115,798	1205.49%	35,111,698	1014.85%
1092	DRY PASTA PRODUCTS INDUSTRY	13,250,542	14,597,664	10.17%	12,465,981	-5.92%
1099	OTHER FOOD PRODUCTS INDUSTRIES N.E.C.	18,189,680	73,414,941	303.61%	62,694,228	244.67%
1111	SOFT DRINK INDUSTRY	3,987,188	11,116,072	178.79%	9,492,803	138.08%
1121	DISTILLERY PRODUCTS INDUSTRY	236,342,080	230,924,486	-2.29%	197,202,806	-16.56%
1131	BREWERY PRODUCTS INDUSTRY	49,747,700	88,252,391	77.40%	75,364,980	51.49%
1141	WINE INDUSTRY	430,919	288,131	-33.14%	246,056	-42.90%
1211	LEAD TOBACCO INDUSTRY	14,748,244	21,812,684	47.90%	18,627,399	26.30%
1221	TOBACCO PRODUCTS INDUSTRY	2,052,886	8,192,920	299.09%	6,996,516	240.81%
1511	TIRE AND TUBE INDUSTRY	196,713,846	333,417,461	69.49%	284,728,831	44.74%
1521	RUBBER HOSE & BELTING INDUSTRY	18,569,545	31,763,306	71.05%	27,124,941	46.07%
1599	OTHER RUBBER PRODUCTS INDUSTRIES	7,103,466	27,186,486	282.72%	23,216,470	226.83%
1611	FOAMED & EXPANDED PLASTIC PRODUCTS INDUSTRY	1,467,783	11,373,674	674.89%	9,712,787	561.73%
1621	PLASTIC PIPE AND PIPE FITTINGS INDUSTRY	7,056,633	18,814,268	166.62%	16,066,839	127.68%
1631	PLASTIC FILM & SHEETING INDUSTRY	42,332,552	86,957,623	105.42%	74,259,285	75.42%
1691	PLASTIC BAG INDUSTRY	2,812,341	36,065,612	1182.41%	30,798,985	995.14%

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1699	OTHER PLASTIC PRODUCTS INDUSTRIES M.E.C.	75,434,662	318,897,291	322.75%	272,329,027	261.01%
1711	LEATHER TANNERIES	26,923,063	24,049,731	-10.67%	20,537,772	-23.72%
1712	FOOTWEAR INDUSTRY	16,359,877	30,703,272	87.67%	26,219,703	60.27%
1713	LUGGAGE, PURSE & HANDBAG INDUSTRIES	1,168,760	870,277	-25.54%	743,191	-36.41%
1719	OTHER LEATHER & ALLIED PRODUCTS INDUSTRIES	2,473,724	9,637,911	289.61%	8,230,496	232.72%
1811	MAN-MADE FIBRE & FILAMENT YARN INDUSTRY	25,579,625	82,201,534	221.36%	70,197,723	174.43%
1821	WOOL YARN & WOVEN CLOTH INDUSTRY	1,075,126	4,365,347	306.03%	3,727,880	246.74%
1829	OTHER SPUN YARN & WOVEN CLOTH INDUSTRIES	12,567,193	29,961,319	138.41%	25,586,096	103.59%
1831	BROAD KNITTED FABRIC INDUSTRY	1,203,676	2,804,117	132.96%	2,394,635	98.94%
1911	NATURAL FIBRES PROCESSING & FELT PROD. IND.	6,136,765	17,429,829	184.02%	14,884,568	142.55%
1921	CARPET, MAT & RUG INDUSTRY	5,430,887	22,725,852	318.46%	19,407,218	257.35%
1931	CANVAS & RELATED PRODUCTS INDUSTRY	303,541	946,674	211.88%	808,432	166.33%
1991	NARROW FABRIC INDUSTRY	469,133	1,167,719	148.91%	997,198	112.56%
1993	HOUSEHOLD PRODUCTS OF TEXTILE MATERIALS INDUSTRY	2,210,750	6,087,141	175.34%	5,198,242	135.13%
1994	HYGIENE PRODUCTS OF TEXTILE MATERIALS INDUSTRY	2,292,712	1,750,802	-23.64%	1,495,134	-34.79%
1995	TIRE CORD FABRIC INDUSTRY	1,719,537	6,565,549	281.82%	5,606,788	226.06%
1999	OTHER TEXTILE PRODUCTS INDUSTRIES M.E.C.	5,624,782	19,120,325	239.93%	16,328,202	190.29%
2431	MEN'S & BOYS' COAT INDUSTRY	328,512	480,136	46.15%	410,022	24.81%
2432	MEN'S & BOYS' SUIT & JACKET INDUSTRY	3,407,346	7,990,078	134.50%	6,823,295	100.25%
2433	MEN'S & BOYS' PANTS INDUSTRY	1,943,238	4,583,326	135.86%	3,914,027	101.42%
2434	MEN'S & BOYS' SHIRT & UNDERWEAR INDUSTRY	423,071	2,528,452	497.64%	2,159,225	410.37%
2441	WOMEN'S COAT & JACKET INDUSTRY	3,800,440	3,559,603	-6.34%	3,039,798	-20.01%
2442	WOMEN'S SPORTSWEAR INDUSTRY	1,852,625	13,094,957	606.83%	11,182,713	503.61%
2443	WOMEN'S DRESS INDUSTRY	257,232	1,607,758	525.02%	1,372,979	433.75%
2444	WOMEN'S BLOUSE & SHIRT INDUSTRY	138,976	554,732	299.16%	473,725	240.87%
2451	CHILDREN'S CLOTHING INDUSTRY	1,354,285	1,409,845	4.10%	1,203,967	-11.10%
2491	SWEATER INDUSTRY	874,126	639,815	-26.81%	546,383	-37.49%
2492	OCCUPATIONAL CLOTHING INDUSTRY	783,124	1,519,667	94.05%	1,297,751	65.71%
2493	GLOVE INDUSTRY	224,882	624,043	177.50%	532,915	136.98%
2494	HOSIERY INDUSTRY	208,059	2,079,401	899.43%	1,775,748	753.48%
2495	FUR GOODS INDUSTRY	7,325,552	26,363,205	259.88%	22,513,412	207.33%
2496	FOUNDATION GARMENT INDUSTRY	1-1,958	49,994	-64.78%	42,693	-69.93%
2499	OTHER CLOTHING & APPAREL INDUSTRIES M.E.C.	11,771,003	19,335,674	64.27%	16,512,104	40.28%
2511	SHINGLE & SHAKE INDUSTRY	260,400	1,435,442	451.25%	1,225,826	370.75%
2512	SAWMILL & PLANING MILL PRODUCTS INDUSTRY (EXCEPT SHINGLES &	441,984,677	672,471,333	52.15%	574,270,993	29.93%
2521	HARWOOD VENEER & PLYWOOD INDUSTRY	38,022,378	68,891,406	81.19%	58,831,260	54.73%
2522	SOFTWOOD VENEER & PLYWOOD INDUSTRY	1,945,565	1,876,764	-3.54%	1,602,702	-17.62%
2541	PREFABRICATED WOODEN BUILDINGS INDUSTRY	5,700,505	18,209,280	219.43%	15,550,196	172.79%
2542	WOODEN KITCHEN CABINET & BATHROOM VANITY IND.	0	525,942	ERR	449,139	ERR
2543	WOODEN DOOR & WINDOW INDUSTRY	1,015,519	20,519,686	1920.61%	17,523,216	1625.54%
2549	OTHER MILLWORK INDUSTRIES	5,480,624	19,963,486	264.26%	17,048,237	211.06%

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2561	WOODEN BOX & PALLET INDUSTRY	2,237,712	2,384,753	6.57%	2,036,510	-8.99%
2592	PARTICLE BOARD INDUSTRY	0	53,810,235	ERR	45,959,210	ERR
2599	OTHER WOOD INDUSTRIES N.E.C.	63,292,581	43,847,657	-30.72%	37,444,626	-40.84%
2611	WOODEN HOUSEHOLD FURNITURE INDUSTRY	14,246,346	61,213,961	329.68%	52,274,945	266.94%
2612	UPHOLSTERED HOUSEHOLD FURNITURE INDUSTRIES	7,997,081	73,386,812	817.67%	62,670,207	683.66%
2619	OTHER HOUSEHOLD FURNITURE INDUSTRIES	3,615,722	15,728,002	334.99%	13,431,257	271.47%
2641	METAL OFFICE FURNITURE INDUSTRY	88,547,954	196,154,528	121.52%	167,510,272	89.17%
2649	OTHER OFFICE FURNITURE INDUSTRIES	16,064,228	45,355,116	182.34%	38,731,952	141.11%
2691	BED SPRING & MATTRESS INDUSTRY	300,542	1,445,312	380.90%	1,234,254	310.68%
2692	HOTEL, RESTAURANT & INSTITUTIONAL FURNITURE	10,688,236	36,691,932	243.29%	31,333,845	193.16%
2699	OTHER FURNITURE & FIXTURE INDUSTRIES N.E.C.	26,908,109	117,420,118	336.37%	100,273,371	272.65%
2711	PULP INDUSTRY	554,196,273	676,873,798	22.14%	578,030,570	4.30%
2712	NEWSPRINT INDUSTRY	831,135,847	1,197,268,845	44.05%	1,022,432,831	23.02%
2713	PAPERBOARD INDUSTRY	27,158,429	40,416,619	48.82%	34,514,619	27.09%
2714	BUILDING BOARD INDUSTRIES	1,938,918	8,533,353	340.11%	7,287,236	275.84%
2719	OTHER PAPER INDUSTRIES	232,815,415	484,527,713	108.12%	413,772,599	77.73%
2721	ASPHALT ROOFING INDUSTRY	33,080,337	57,833,095	74.83%	49,387,784	49.30%
2731	FOLDING CARTON & SET-UP BOX INDUSTRY	4,871,300	33,328,768	584.19%	28,461,800	484.28%
2732	CORRUGATED BOX INDUSTRY	664,229	1,729,271	160.34%	1,476,747	122.33%
2733	PAPER BAG INDUSTRY	724,481	3,423,332	372.52%	2,923,426	303.52%
2791	COATED & TREATED PAPER INDUSTRY	51,803,221	147,742,919	185.20%	126,168,163	143.55%
2792	STATIONERY PAPER PRODUCTS INDUSTRY	4,749,338	8,992,330	89.34%	7,679,189	61.69%
2793	PAPER CONSUMER PRODUCTS INDUSTRIES	24,147,583	7,477,971	-69.03%	6,385,970	-73.55%
2799	OTHER CONVERTED PAPER PRODUCTS INDUSTRIES N.E.C.	1,865,681	12,706,495	581.06%	10,850,978	481.61%
2811	BUSINESS FORMS PRINTING INDUSTRY	3,548,501	10,728,987	202.35%	9,162,243	158.20%
2819	OTHER COMMERCIAL PRINTING INDUSTRIES	25,846,668	86,242,135	233.67%	73,648,279	184.94%
2821	PLATENAKING, TYPESETTING & BINDERY INDUSTRY	2,006,153	1,252,480	-37.57%	1,069,582	-46.68%
2831	BOOK PUBLISHING INDUSTRY	36,660,282	45,383,825	23.80%	38,756,469	5.72%
2839	OTHER PUBLISHING INDUSTRIES	9,165,070	11,345,956	23.80%	9,689,117	5.72%
2841	NEWSPAPER, MAGAZINE & PERIODICAL (COMB. PUBLISHING & PRINTING	27,389,772	157,488,977	474.99%	134,491,014	391.03%
2911	FERRO-ALLOYS INDUSTRY	12,617,573	4,790,737	-62.03%	4,091,150	-67.58%
2912	STEEL FOUNDRIES	5,291,037	13,480,784	154.79%	11,512,198	117.58%
2919	OTHER PRIMARY STEEL INDUSTRIES	910,998,808	1,260,837,875	38.40%	1,076,718,937	18.19%
2921	STEEL PIPE & TUBE INDUSTRY	387,350,734	297,182,681	-23.28%	253,785,381	-34.48%
2941	IRON FOUNDRIES	88,986,266	118,969,610	33.69%	101,596,593	14.17%
2951	PRIMARY PRODUCTION OF ALUMINUM INDUSTRY	30,247,343	37,680,898	24.58%	32,178,393	6.38%
2959	OTHER PRIMARY SHELTING & REFINING OF NON-FERROUS METAL	1,944,426,722	1,234,903,104	-36.49%	1,054,571,395	-45.76%
2961	ALUMINUM ROLLING, CASTING & EXTRUDING INDUSTRY	84,769,215	168,322,354	98.57%	143,742,403	69.57%
2971	COPPER & COPPER ALLOY ROLLING, CASTING & EXTRUDING	58,231,217	88,535,334	52.04%	75,606,605	29.84%
2999	OTHER ROLLED, CAST & EXTRUDED NON-FERROUS METAL PROD.	90,275,472	91,168,367	0.99%	77,855,138	-13.76%
3011	POWER BOILER & HEAT EXCHANGER INDUSTRY	30,914,466	46,944,791	51.85%	40,089,488	29.68%

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3021	METAL TANKS (HEAVY GAUGE) INDUSTRY	5,285,971	11,358,300	114.88%	9,699,658	83.50%
3022	PLATE WORK INDUSTRY	3,227,449	8,658,300	168.27%	7,393,937	129.10%
3029	OTHER FABRICATED STRUCTURAL METAL PROD. IND.	7,183,567	14,293,285	98.97%	12,206,050	69.92%
3031	METAL DOOR & WINDOW INDUSTRY	3,736,919	10,629,173	184.44%	9,077,005	142.90%
3032	PREFABRICATED PORTABLE METAL BUILDINGS INDUSTRY	1,068,844	3,414,240	219.43%	2,915,662	172.79%
3039	OTH. ORNAMENTAL & ARCHITECTURAL METAL PROD. IND.	28,359,443	74,525,269	162.79%	63,642,416	124.41%
3042	METAL CLOSURE & CONTAINER INDUSTRY	19,656,402	45,494,091	131.45%	38,850,633	97.65%
3049	OTHER STAMPED & PRESSED METAL PRODUCTS INDUSTRIES	1,725,301	5,135,800	197.68%	4,385,824	154.21%
3052	WIRE & WIRE ROPE INDUSTRY	45,027,508	97,254,008	115.99%	83,052,099	84.45%
3053	INDUSTRIAL FASTENER INDUSTRY	50,619,298	82,836,640	63.64%	70,738,377	39.75%
3059	OTHER WIRE PRODUCTS INDUSTRIES	26,043,849	39,546,524	51.85%	33,771,583	29.67%
3061	BASIC HARDWARE INDUSTRY	34,925,846	101,361,323	190.22%	86,559,627	147.84%
3062	METAL DIES, MOULDS & PATTERNS INDUSTRY	116,898,964	258,184,480	120.86%	220,482,050	88.61%
3063	HAND TOOL & IMPLEMENT INDUSTRY	9,193,596	31,206,031	239.43%	26,649,044	189.87%
3069	OTHER HARDWARE & CUTLERY INDUSTRIES	20,577,009	33,791,451	64.22%	28,856,918	40.24%
3071	HEATING EQUIPMENT INDUSTRY	17,785,714	88,216,711	396.00%	75,334,510	323.57%
3091	METAL PLUMBING FIXTURES & FITTINGS INDUSTRIES	5,628,807	21,141,481	275.59%	18,054,211	220.75%
3092	METAL VALVE INDUSTRY	23,981,691	40,219,410	67.71%	34,346,208	43.22%
3099	OTHER METAL FABRICATING INDUSTRIES N.E.C.	179,225,229	258,372,376	44.16%	220,642,507	23.11%
3111	AGRICULTURAL IMPLEMENT INDUSTRY	551,982,141	396,780,341	-28.12%	338,838,891	-38.61%
3121	COMMERCIAL REFRIGERATION & AIR CONDITIONING EQP.	29,129,816	85,405,611	193.19%	72,933,912	150.38%
3191	COMPRESSOR, PUMP & INDUSTRIAL FAN INDUSTRY	45,696,665	68,917,236	50.81%	58,853,319	28.79%
3192	CONSTRUCTION & MINING MACHINERY & MATERIALS HOLMG EQP.	423,132,540	813,106,652	92.16%	694,369,472	64.10%
3193	SAWMILL & WOODWORKING MACHINERY INDUSTRY	7,152,332	28,265,314	295.19%	24,137,757	237.48%
3194	TURBINE & MECHANICAL POWER TRANSMISSION EQP.	99,077,290	116,579,377	17.67%	99,555,403	0.48%
3199	OTHER MACHINERY & EQUIPMENT INDUSTRIES N.E.C.	499,637,580	884,140,401	76.96%	755,030,231	51.12%
3211	AIRCRAFT & AIRCRAFT PARTS INDUSTRY	532,858,255	981,778,581	84.25%	838,410,402	57.34%
3231	MOTOR VEHICLE INDUSTRY	6,691,855,057	18,837,173,741	181.49%	16,086,399,437	140.39%
3242	COMMERCIAL TRAILER INDUSTRY	2,972,186	9,914,897	233.59%	8,467,034	184.88%
3243	NON-COMMERCIAL TRAILER INDUSTRY	524,503	1,749,687	233.59%	1,494,182	184.88%
3251	MOTOR VEHICLE ENGINE & ENGINE PARTS INDUSTRY	621,965,529	1,916,218,617	208.09%	1,636,395,061	163.10%
3252	MOTOR VEHICLE WIRING ASSEMBLIES INDUSTRY	33,644,597	47,475,594	41.11%	40,542,779	20.50%
3259	OTHER MOTOR VEHICLE ACCESSORIES, PARTS & ASSEMBLIES	3,085,267,561	9,067,916,804	193.91%	7,743,737,664	150.99%
3261	RAILROAD ROLLING STOCK INDUSTRY	93,933,288	95,042,417	1.18%	81,163,465	-13.59%
3271	SHIPBUILDING & REPAIR INDUSTRY	8,349,647	5,905,068	-29.28%	5,042,757	-39.61%
3281	BOATBUILDING & REPAIR INDUSTRY	45,322,779	88,760,853	95.84%	75,799,191	67.24%
3299	OTHER TRANSPORTATION EQUIPMENT INDUSTRIES	46,007,780	53,073,913	15.36%	45,323,581	-1.49%
3311	SMALL ELECTRICAL APPLIANCE INDUSTRY	22,090,401	55,532,691	151.39%	47,423,306	114.68%
3321	MAJOR APPLIANCE INDUSTRY (ELECTRIC & NON-ELECTRIC)	27,718,866	74,857,678	170.06%	63,926,284	130.62%
3331	LIGHTING FIXTURE INDUSTRY	3,643,298	13,879,426	280.96%	11,852,627	225.33%
3332	ELECTRIC LAMP & SHADE INDUSTRY (EXCEPT BULB & TUBE)	496,813	1,892,649	280.96%	1,616,267	225.33%

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3333	ELECTRIC LAMP (BULB & TUBE) INDUSTRY	8,210,769	44,137,353	437.55%	37,692,018	359.06%
3341	RECORD PLAYER, RADIO & TELEVISION RECEIVER IND.	68,611,117	120,117,196	75.07%	102,576,598	49.50%
3351	TELECOMMUNICATION EQUIPMENT INDUSTRY	264,928,101	415,090,014	56.68%	354,474,820	33.80%
3352	ELECTRONIC PARTS & COMPONENTS INDUSTRY	179,653,487	298,767,248	66.30%	255,138,555	42.02%
3359	OTH. COMMUNICATIONS & ELECTRONIC EQUIPMENT INDUSTRIES	31,640,591	98,132,752	210.15%	83,802,521	164.86%
3361	ELECTRONIC COMPUTING & PERIPHERAL EQUIPMENT INDUSTRY	575,205,886	1,521,102,493	164.44%	1,298,977,364	125.83%
3362	ELECTRONIC OFFICE, STORE & BUSINESS MACHINE INDUSTRY	6,860	425	-93.80%	363	-94.71%
3369	OTH. OFFICE, STORE & BUSINESS MACHINE INDUSTRIES	88,715,533	78,897,375	-11.07%	67,376,067	-24.05%
3371	ELECTRICAL TRANSFORMER INDUSTRY	41,552,324	73,452,281	76.77%	62,726,115	50.96%
3372	ELECTRICAL SWITCHGEAR & PROTECTIVE EQUIP. IND.	21,596,137	23,998,517	11.12%	20,494,037	-5.10%
3379	OTH. ELECTRICAL INDUSTRIAL EQUIPMENT INDUSTRIES	60,680,809	151,800,745	150.16%	129,633,429	113.63%
3381	COMMUNICATIONS & ENERGY WIRE & CABLE IND.	37,632,803	96,194,181	155.61%	82,147,038	118.29%
3391	BATTERY INDUSTRY	19,184,481	20,019,329	4.35%	17,095,926	-10.89%
3392	NON-CURRENT CARRYING WIRING DEVICES INDUSTRY	2,272,978	9,652,660	324.67%	8,243,091	262.66%
3399	OTHER ELECTRICAL PRODUCTS INDUSTRIES N.E.C.	33,370,294	93,293,172	179.57%	79,669,660	138.74%
3511	CLAY PRODUCTS INDUSTRY (FROM DOMESTIC CLAY)	782,318	5,623,195	618.79%	4,802,045	513.82%
3512	CLAY PRODUCTS INDUSTRY (FROM IMPORTED CLAY)	12,620,265	46,130,561	265.53%	39,394,160	212.15%
3521	HYDRAULIC CEMENT INDUSTRY	35,055,730	72,342,532	106.36%	61,778,422	76.23%
3542	STRUCTURAL CONCRETE PRODUCTS INDUSTRY	10,377,629	30,811,010	196.90%	26,311,708	153.54%
3549	OTHER CONCRETE PRODUCTS INDUSTRIES	21,153,073	25,041,196	18.38%	21,384,454	1.09%
3551	READY-MIX CONCRETE INDUSTRY	1,044,596	1,236,602	18.38%	1,056,022	1.09%
3561	PRIMARY GLASS & GLASS CONTAINERS INDUSTRY	27,909,441	57,115,306	104.65%	48,774,813	74.76%
3571	ABRASIVES INDUSTRY	99,751,718	147,444,315	47.81%	125,913,164	26.23%
3581	LIME INDUSTRY	17,318,720	5,070,390	-70.72%	4,329,966	-75.00%
3591	REFRACTORIES INDUSTRY	7,645,004	15,549,278	103.39%	13,278,632	73.69%
3592	ASBESTOS PRODUCTS INDUSTRY	7,274,908	2,184,477	-69.97%	1,865,480	-74.36%
3593	GYPNUM PRODUCTS INDUSTRY	4,938,262	60,015,347	1115.31%	51,251,364	937.84%
3594	NON-METALLIC MINERAL INSULATING MATERIALS INDUSTRY	5,364,846	19,319,602	260.11%	16,498,379	207.53%
3599	OTH. NON-METALLIC MINERAL PRODUCTS INDUSTRIES N.E.C.	2,835,257	14,370,116	406.84%	12,271,662	332.82%
3611	REFINED PETROLEUM PRODUCTS INDUSTRIES (EXCEPT. LUBRICATING OIL	338,556,958	281,194,118	-16.94%	240,131,612	-29.07%
3612	LUBRICATING OIL & GREASE INDUSTRY	4,563,675	24,988,300	447.55%	21,339,283	367.59%
3699	OTHER PETROLEUM & COAL PRODUCTS INDUSTRIES	221,823,029	79,396,409	-64.21%	67,802,228	-69.43%
3711	INDUSTRIAL INORGANIC CHEMICAL INDUSTRIES N.E.C.	546,374,397	718,227,594	31.45%	613,345,512	12.26%
3712	INDUSTRIAL ORGANIC CHEMICAL INDUSTRIES N.E.C.	429,684,207	365,964,859	-14.83%	312,523,364	-27.27%
3721	CHEMICAL FERTILIZER & FERTILIZER MATERIALS INDUSTRY	75,978,561	33,969,857	-55.29%	29,009,272	-61.82%
3722	MIXED FERTILIZER INDUSTRY	12,969,225	7,759,811	-40.17%	6,626,653	-48.90%
3729	OTHER AGRICULTURAL CHEMICAL INDUSTRIES	6,186,603	9,295,995	50.26%	7,938,510	28.32%
3731	PLASTIC & SYNTHETIC RESIN INDUSTRY	235,863,042	380,513,075	61.33%	324,947,118	37.77%
3741	PHARMACEUTICAL & MEDICINE INDUSTRY	13,940,786	32,185,210	130.87%	27,485,235	97.16%
3751	PAINT & VARNISH INDUSTRY	7,748,698	16,831,662	117.22%	14,373,751	85.50%
3761	SOAP & CLEANING COMPOUNDS INDUSTRY	2,968,112	32,864,726	1007.26%	28,065,522	845.57%

Table 16

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3771	TOILET PREPARATIONS INDUSTRY	8,357,606	30,994,196	270.85%	26,468,143	216.70%
3792	ADHESIVES INDUSTRY	1,599,490	9,655,475	503.66%	8,245,495	415.51%
3799	OTHER CHEMICAL PRODUCTS INDUSTRIES N.E.C.	66,011,268	176,167,655	166.88%	150,442,062	127.90%
3911	INDICATING, RECORDING & CONTROLLING INSTR. INDUS.	66,763,454	112,653,890	68.74%	96,203,151	44.10%
3912	OTH. INSTRUMENTS & RELATED PRODUCTS INDUSTRY	315,283,747	616,195,803	95.44%	526,213,325	66.90%
3913	CLOCK & WATCH INDUSTRY	15,777,620	3,952,200	-74.95%	3,375,064	-78.61%
3914	OPHTHALMIC GOODS INDUSTRY	3,066,827	17,056,027	456.15%	14,565,352	374.93%
3921	JEWELLERY & SILVERWARE INDUSTRY	19,112,510	35,931,953	88.00%	30,684,845	60.55%
3931	SPORTING GOODS INDUSTRY	30,355,563	65,227,194	114.88%	55,702,130	83.50%
3932	TOYS AND GAMES INDUSTRY	14,404,752	23,636,560	64.09%	20,184,936	40.13%
3971	SIGN & DISPLAY INDUSTRY	4,227,528	31,936,888	655.45%	27,273,175	545.13%
3991	BROOM, BRUSH & MOP INDUSTRY	379,843	1,838,838	384.10%	1,570,314	313.41%
3992	BUTTON, BUCKLE & CLOTHES FASTENER INDUSTRY	541,190	1,712,149	216.37%	1,462,126	170.17%
3993	FLOOR TILE, LINOLEUM & COATED FABRIC INDUSTRY	24,157,464	79,156,589	227.67%	67,597,429	179.82%
3994	MUSICAL INSTRUMENT & SOUND RECORDING INDUSTRY	1,125,043	8,956,061	696.06%	7,648,216	579.82%
3999	OTHER MANUFACTURED PRODUCTS INDUSTRIES N.E.C.	56,414,509	162,833,926	188.64%	139,055,445	146.49%
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	TOTAL MANUFACTURING INDUSTRIES	25,031,274,861	52,005,284,813	107.76%	44,411,003,256	77.42%

NOTE: Deflator used for 1987 Exports was 117.1.

SOURCE: Export Trade, Statistics Canada Catalogue 65-202, 1988.

ONTARIO AND CANADIAN EXPORTS TO OTHER COUNTRIES, EXCLUDING
THE UNITED STATES, BY MANUFACTURING INDUSTRIES, 1981 AND 1987

CANADIAN \$

1980 SIC CODE	INDUSTRY	ONTARIO EXPORTS 1981	ONTARIO EXPORTS 1987	% INCREASE IN REAL DOLLARS	ONTARIO EXPORTS 1981 CONSTANT \$	% INCREASE CONSTANT 1981 DOLLARS
1011	MEAT & MEAT PRODUCTS IND. (EXCEPT POULTRY)	113,045,050	174,727,526	54.56%	149,212,234	31.99%
1012	POULTRY PRODUCTS INDUSTRY	2,267,177	644,164	-71.59%	550,097	-75.74%
1021	FISH PRODUCTS INDUSTRY	9,479,048	28,275,384	198.29%	24,146,357	154.73%
1031	CANNED & PRESERVED FRUIT & VEGETABLE INDUSTRY	19,519,004	14,894,959	-23.69%	12,719,863	-34.83%
1032	FROZEN FRUIT & VEGETABLE INDUSTRY	13,083,222	8,226,832	-37.12%	7,025,476	-46.30%
1041	FLUID MILK INDUSTRY	108,909	51,153	-53.03%	43,683	-59.89%
1049	OTHER DAIRY PRODUCTS INDUSTRIES	39,293,241	26,728,233	-31.98%	22,825,135	-41.91%
1051	CEREAL GRAIN FLOUR INDUSTRY	9,684,270	8,379,981	-13.47%	7,156,260	-26.10%
1052	PREPARED FLOUR MIXES & PREPARED CEREAL FOODS INDUSTRY	2,929,828	3,715,152	26.80%	3,172,632	8.29%
1053	FEED INDUSTRY	37,992,715	5,810,628	-84.71%	4,962,108	-86.94%
1061	VEGETABLE OIL MILLS (EXCEPT CORN OIL)	44,967,376	8,241,684	-81.67%	7,038,159	-84.35%
1071	BISCUIT INDUSTRY	804,728	1,173,300	45.80%	1,001,964	24.51%
1072	BREAD & OTHER BAKERY PRODUCTS INDUSTRY	1,505,331	974,372	-35.27%	832,085	-44.72%
1081	CANE AND BEET SUGAR INDUSTRY	9,314,880	1,111,351	-88.07%	949,061	-89.81%
1082	CHEWING GUM INDUSTRY	4,378,905	2,884,701	-34.12%	2,463,451	-43.74%
1083	SUGAR & CHOCOLATE CONFECTIONERY INDUSTRY	2,672,409	1,445,040	-45.93%	1,234,022	-53.82%
1091	TEA & COFFEE INDUSTRY	184,359	570,929	209.68%	487,557	164.46%
1092	DRY PASTA PRODUCTS INDUSTRY	89,615	367,527	310.12%	313,857	250.23%
1094	MALT & MALT FLOUR INDUSTRY	0	0	ERR	0	ERR
1099	OTHER FOOD PRODUCTS INDUSTRIES N.E.C.	60,806,845	40,219,974	-33.86%	34,346,690	-43.52%
1111	SOFT DRINK INDUSTRY	451,480	432,357	-4.24%	369,220	-18.22%
1121	DISTILLERY PRODUCTS INDUSTRY	5,165,567	27,570,349	433.73%	23,544,278	355.79%
1131	BREWERY PRODUCTS INDUSTRY	360,213	154,868	-57.01%	132,253	-63.28%
1141	WINE INDUSTRY	195,552	494,866	153.06%	422,601	116.11%
1211	LEAD TOBACCO INDUSTRY	105,857,243	57,203,538	-45.96%	48,850,161	-53.85%
1221	TOBACCO PRODUCTS INDUSTRY	2,674,606	1,558,353	-41.74%	1,330,788	-50.24%
1511	TIRE AND TUBE INDUSTRY	43,008,267	18,008,601	-58.13%	15,378,822	-64.24%
1521	RUBBER HOSE & BELTING INDUSTRY	3,917,603	8,553,906	118.35%	7,304,787	86.46%
1599	OTHER RUBBER PRODUCTS INDUSTRIES	2,299,213	4,238,802	84.36%	3,619,814	57.44%
1611	FOAMED & EXPANDED PLASTIC PRODUCTS INDUSTRY	372,958	645,958	73.20%	551,629	47.91%
1621	PLASTIC PIPE AND PIPE FITTINGS INDUSTRY	1,541,335	995,870	-35.39%	850,444	-44.82%

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1631	PLASTIC FILM & SHEETING INDUSTRY	14,758,239	22,357,623	51.49%	19,092,761	29.37%
1691	PLASTIC BAG INDUSTRY	1,062,014	784,033	-26.17%	669,541	-36.96%
1699	OTHER PLASTIC PRODUCTS INDUSTRIES N.E.C.	14,832,618	22,131,218	49.21%	18,899,418	27.42%
1711	LEATHER TANNERIES	4,018,962	5,301,499	31.91%	4,527,326	12.65%
1712	FOOTWEAR INDUSTRY	7,219,867	2,974,565	-58.80%	2,540,192	-64.82%
1713	LUGGAGE, PURSE & HANDBAG INDUSTRY	863,811	179,139	-79.26%	152,980	-82.29%
1719	OTHER LEATHER & ALLIED PRODUCTS INDUSTRIES	291,268	122,374	-57.99%	104,504	-64.12%
1811	MAN-MADE FIBRE & FILAMENT YARN INDUSTRY	63,405,955	44,782,049	-29.37%	38,242,570	-39.69%
1821	WOOL YARN & WOVEN CLOTH INDUSTRY	112,700	283,642	151.68%	242,222	114.93%
1829	OTHER SPUN YARN & WOVEN CLOTH INDUSTRIES	21,850,284	24,357,255	11.47%	20,800,389	-4.80%
1831	BROAD KNITTED FABRIC INDUSTRY	657,005	572,734	-12.83%	489,098	-25.56%
1911	NATURAL FIBRES PROCESSING & FELT PROD. IND.	3,679,986	7,722,516	109.85%	6,594,804	79.21%
1921	CARPET, MAT & RUG INDUSTRY	11,779,784	16,620,153	41.09%	14,193,128	20.49%
1931	CANVAS & RELATED PRODUCTS INDUSTRY	451,063	320,676	-28.91%	273,848	-39.29%
1991	NARROW FABRIC INDUSTRIES	167,915	559,998	233.50%	478,222	184.80%
1993	HOUSEHOLD PRODUCTS OF TEXTILE MATERIALS INDUSTRY	978,223	1,131,291	15.65%	966,090	-1.24%
1994	HYGIENE PRODUCTS OF TEXTILE MATERIALS INDUSTRY	2,297,185	418,430	-81.79%	357,327	-84.45%
1995	TIRE CORD FABRIC INDUSTRY	1,647,518	3,535,454	114.59%	3,019,175	83.26%
1999	OTHER TEXTILE PRODUCTS INDUSTRIES N.E.C.	6,049,890	5,372,632	-11.19%	4,588,072	-24.16%
2431	MEN'S & BOYS' COAT INDUSTRY	34,172	18,954	-44.53%	16,186	-52.63%
2432	MEN'S & BOYS' SUIT & JACKET INDUSTRY	884,097	670,495	-24.16%	572,583	-35.24%
2433	MEN'S & BOYS' PANTS INDUSTRY	2,439,872	83,012	-96.60%	70,890	-97.09%
2434	MEN'S & BOYS' SHIRT & UNDERWEAR INDUSTRY	337,181	179,807	-46.67%	153,550	-54.46%
2441	WOMEN'S COAT & JACKET INDUSTRY	885,348	339,533	-61.65%	289,951	-67.25%
2442	WOMEN'S SPORTSWEAR INDUSTRY	852,239	676,667	-20.60%	577,854	-32.20%
2443	WOMEN'S DRESS INDUSTRY	152,301	97,797	-35.79%	83,516	-45.16%
2444	WOMEN'S BLOUSE & SHIRT INDUSTRY	67,572	52,537	-22.25%	44,865	-33.60%
2451	CHILDREN'S CLOTHING INDUSTRY	385,963	493,108	27.76%	421,100	9.10%
2491	SWEATER INDUSTRY	381,120	106,408	-72.08%	90,869	-76.16%
2492	OCCUPATIONAL CLOTHING INDUSTRY	379,114	365,379	-3.62%	312,023	-17.70%
2493	GLOVE INDUSTRY	193,454	57,427	-70.31%	49,041	-74.65%
2494	HOSIERY INDUSTRY	337,431	262,363	-22.25%	224,050	-33.60%
2495	FUR GOODS INDUSTRY	13,568,756	8,041,855	-40.73%	6,867,511	-49.39%
2496	FOUNDATION GARMENT INDUSTRY	237,978	499,612	109.94%	426,654	79.28%
2499	OTHER CLOTHING & APPAREL INDUSTRIES N.E.C.	3,113,295	2,911,613	-6.48%	2,486,433	-20.14%
2511	SHINGLE & SHAKE INDUSTRY	0	3,000	ERR	2,562	ERR
2512	SAWMILL & PLANING MILL PRODUCTS INDUSTRY (EXCEPT SHINGLES &	29,852,648	52,553,622	76.04%	44,879,267	50.34%
2521	HARWOOD VENEER & PLYWOOD INDUSTRY	13,387,315	11,852,276	-11.47%	10,121,500	-24.39%
2522	SOFTWOOD VENEER & PLYWOOD INDUSTRY	78,926	0	-100.00%	0	-100.00%
2541	PREFABRICATED WOODEN BUILDINGS INDUSTRY	6,237,210	2,950,881	-52.69%	2,519,967	-59.60%
2542	WOODEN KITCHEN CABINET & BATHROOM VANITY IND.	0	0	ERR	0	ERR

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2543	WOODEN DOOR & WINDOW INDUSTRY	3,858,307	5,135,417	33.10%	4,385,497	13.66%
2549	OTHER MILLWORK INDUSTRIES	5,588,442	4,830,950	-13.55%	4,125,491	-26.18%
2561	WOODEN BOX & PALLET INDUSTRY	306,126	293,801	-4.03%	250,898	-18.04%
2592	PARTICLE BOARD INDUSTRY	0	30,472	ERR	26,022	ERR
2599	OTHER WOOD INDUSTRIES M.E.C.	9,031,969	7,714,722	-14.58%	6,588,149	-27.06%
2611	WOODEN HOUSEHOLD FURNITURE INDUSTRY	2,631,688	1,091,859	-58.51%	932,416	-64.57%
2612	UPHOLSTERED HOUSEHOLD FURNITURE INDUSTRIES	1,162,403	701,881	-39.62%	599,386	-48.44%
2619	OTHER HOUSEHOLD FURNITURE INDUSTRIES	887,580	3,390,829	282.03%	2,895,670	226.24%
2641	METAL OFFICE FURNITURE INDUSTRIES	5,689,060	11,993,311	110.81%	10,241,939	80.03%
2649	OTHER OFFICE FURNITURE INDUSTRIES	1,134,103	2,080,669	83.46%	1,776,831	56.67%
2691	BED SPRING & MATTRESS INDUSTRY	163,955	290,339	77.08%	247,941	51.23%
2692	HOTEL, RESTAURANT & INSTITUTIONAL FURNITURE	1,241,623	1,650,028	32.89%	1,409,076	13.49%
2699	OTHER FURNITURE & FIXTURE INDUSTRIES M.E.C.	7,098,850	11,030,645	55.39%	9,419,851	32.70%
2711	PULP INDUSTRY	60,586,057	23,866,437	-60.61%	20,381,244	-66.36%
2712	NEWSPRINT INDUSTRY	5,179,320	1,612,493	-68.87%	1,377,022	-73.41%
2713	PAPERBOARD INDUSTRY	4,302,429	700,849	-83.71%	598,505	-86.09%
2714	BUILDING BOARD INDUSTRIES	45,385	93,016	104.95%	79,433	75.02%
2719	OTHER PAPER INDUSTRIES	22,872,625	16,484,670	-27.93%	14,077,430	-38.45%
2721	ASPHALT ROOFING INDUSTRY	510,737	199,171	-61.00%	170,086	-66.70%
2731	FOLDING CARTON & SET-UP BOX INDUSTRY	877,892	1,917,208	118.39%	1,637,240	86.50%
2732	CORRUGATED BOX INDUSTRY	150,922	135,412	-10.28%	115,638	-23.38%
2733	PAPER BAG INDUSTRY	411,538	163,959	-60.16%	140,016	-65.98%
2791	COATED & TREATED PAPER INDUSTRY	8,357,345	6,372,763	-23.75%	5,442,155	-34.88%
2792	STATIONERY PAPER PRODUCTS INDUSTRY	11,040,995	13,781,763	24.82%	11,769,225	6.60%
2793	PAPER CONSUMER PRODUCTS INDUSTRIES	2,047,377	412,902	-79.83%	352,606	-82.78%
2799	OTHER CONVERTED PAPER PRODUCTS INDUSTRIES M.E.C.	464,649	881,608	89.74%	752,868	62.03%
2811	BUSINESS FORMS PRINTING INDUSTRY	1,161,024	1,666,053	43.50%	1,422,761	22.54%
2819	OTHER COMMERCIAL PRINTING INDUSTRIES	7,487,130	11,288,436	50.77%	9,639,997	28.75%
2821	PLATEMAKING, TYPESETTING & BINDERY INDUSTRY	445,317	293,110	-34.18%	250,307	-43.79%
2831	BOOK PUBLISHING INDUSTRY	5,296,264	5,900,773	11.41%	5,039,089	-4.86%
2839	OTHER PUBLISHING INDUSTRIES	1,324,045	1,475,172	11.41%	1,259,754	-4.86%
2841	NEWSPAPER, MAGAZINE & PERIODICAL (COMB. PUBLISHING & PRINTING	1,036,437	867,418	-27.59%	740,750	-392.00%
2911	FERRO-ALLOYS INDUSTRY	132,060	750,501	53.88%	640,906	38.16%
2912	STEEL FOUNDRIES	122,540,618	121,968,510	-0.47%	104,157,566	-15.00%
2919	OTHER PRIMARY STEEL INDUSTRIES	4,176,548	3,526,601	-15.56%	3,011,615	-27.89%
2921	STEEL PIPE & TUBE INDUSTRY	3,348,078	1,247,193	-62.75%	1,065,067	-68.19%
2941	IRON FOUNDRIES	3,021,676	1,325,233	-56.14%	1,131,711	-62.55%
2951	PRIMARY PRODUCTION OF ALUMINUM INDUSTRY	454,968,402	963,323,590	111.73%	822,650,376	80.81%
2959	OTHER PRIMARY SMELTING & REFINING OF NON-FERROUS METAL	15,239,259	9,029,894	-40.75%	7,711,267	-49.40%
2961	ALUMINUM ROLLING, CASTING & EXTRUDING INDUSTRY	9,863,347	14,840,417	50.46%	12,673,285	28.49%
2971	COPPER & COPPER ALLOY ROLLING, CASTING & EXTRUDING					

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2999	OTHER ROLLED, CAST & EXTRUDED NON-FERROUS METAL PROD.	19,490,326	24,644,184	26.44%	21,045,418	7.98%
3011	POWER BOILER & HEAT EXCHANGER INDUSTRY	40,328,566	76,832,398	90.52%	65,612,637	62.70%
3021	METAL TANKS (HEAVY GAUGE) INDUSTRY	1,349,183	940,457	-30.29%	803,123	-40.47%
3022	PLATE WORK INDUSTRY	139,580	635,588	355.36%	542,774	288.86%
3029	OTHER FABRICATED STRUCTURAL METAL PROD. IND.	4,597,387	2,009,743	-56.29%	1,716,262	-62.67%
3031	METAL DOOR & WINDOW INDUSTRY	1,522,354	1,763,052	15.81%	1,505,595	-1.10%
3032	PREFABRICATED PORTABLE METAL BUILDINGS INDUSTRY	1,169,465	553,283	-52.69%	472,488	-59.60%
3039	OTH. ORNAMENTAL & ARCHITECTURAL METAL PROD. IND.	13,224,154	12,000,496	-9.25%	10,248,075	-22.50%
3042	METAL CLOSURE & CONTAINER INDUSTRY	3,434,132	3,076,176	-10.42%	2,626,965	-23.50%
3049	OTHER STAMPED & PRESSED METAL PRODUCTS INDUSTRIES	418,913,911	600,185,997	43.27%	512,541,415	22.35%
3052	WIRE & WIRE ROPE INDUSTRY	2,026,447	4,251,996	109.83%	3,631,081	79.18%
3053	INDUSTRIAL FASTENER INDUSTRY	5,064,716	1,507,791	-70.23%	1,287,610	-74.58%
3059	OTHER WIRE PRODUCTS INDUSTRIES	3,211,981	4,810,177	49.76%	4,107,751	27.89%
3061	BASIC HARDWARE INDUSTRY	9,016,681	14,536,082	61.21%	12,413,392	37.67%
3062	METAL DIES, MOULDS & PATTERNS INDUSTRY	17,166,557	20,204,178	17.69%	17,253,781	0.51%
3063	HAND TOOL & IMPLEMENT INDUSTRY	25,405,006	20,402,015	-19.69%	17,422,728	-31.42%
3069	OTHER HARDWARE & CUTLERY INDUSTRIES	11,221,461	7,011,124	-37.52%	5,987,296	-46.64%
3071	HEATING EQUIPMENT INDUSTRY	4,421,466	5,324,373	20.42%	4,546,860	2.84%
3091	METAL PLUMBING FIXTURES & FITTINGS INDUSTRIES	1,649,873	1,577,749	-4.37%	1,347,352	-18.34%
3092	METAL VALVE INDUSTRY	11,058,639	27,518,391	148.84%	23,499,907	112.50%
3099	OTHER METAL FABRICATING INDUSTRIES M.E.C	37,585,277	29,487,811	-21.54%	25,181,734	-33.00%
3111	AGRICULTURAL IMPLEMENT INDUSTRY	46,761,633	31,566,676	-32.49%	26,957,025	-42.35%
3121	COMMERCIAL REFRIGERATION & AIR CONDITIONING EQP.	20,739,005	12,291,277	-40.73%	10,496,394	-49.39%
3191	COMPRESSOR, PUMP & INDUSTRIAL FAN INDUSTRY	17,370,861	13,084,915	-24.67%	11,174,137	-35.67%
3192	CONSTRUCTION & MINING MACHINERY & MATERIALS HDLNG EQP.	244,920,332	194,895,770	-20.42%	166,435,329	-32.05%
3193	SAWMILL & WOODWORKING MACHINERY INDUSTRY	2,000,503	5,074,053	153.64%	4,333,094	116.60%
3194	TURBINE & MECHANICAL POWER TRANSMISSION EQP.	69,475,856	92,864,117	33.66%	79,303,260	14.15%
3199	OTHER MACHINERY & EQUIPMENT INDUSTRIES M.E.C.	190,602,157	250,336,251	31.34%	213,779,890	12.16%
3211	AIRCRAFT & AIRCRAFT PARTS INDUSTRY	247,823,289	249,283,093	0.59%	212,880,523	-14.10%
3231	MOTOR VEHICLE INDUSTRY	497,154,489	102,349,912	-79.41%	87,403,853	-82.42%
3242	COMMERCIAL TRAILER INDUSTRY	985,161	581,545	-40.97%	496,623	-49.59%
3243	NON-COMMERCIAL TRAILER INDUSTRY	173,850	102,622	-40.97%	87,636	-49.59%
3251	MOTOR VEHICLE ENGINE & ENGINE PARTS INDUSTRY	134,855,610	32,904,671	-75.60%	28,099,634	-79.16%
3252	MOTOR VEHICLE WIRING ASSEMBLIES INDUSTRY	4,284,627	2,176,074	-49.21%	1,858,304	-56.63%
3259	OTHER MOTOR VEHICLE ACCESSORIES, PARTS & ASSEMBLIES	795,367,073	377,449,134	-52.54%	322,330,601	-59.47%
3261	RAILROAD ROLLING STOCK INDUSTRY	20,593,805	22,137,758	7.50%	18,905,003	-8.20%
3271	SHIPBUILDING & REPAIR INDUSTRY	724,348	1,413,344	95.12%	1,206,955	66.63%
3281	BOATBUILDING & REPAIR INDUSTRY	9,485,355	13,601,211	43.39%	11,615,039	22.45%
3299	OTHER TRANSPORTATION EQUIPMENT INDUSTRIES	45,202,680	39,902,172	-11.73%	34,075,296	-24.62%
3311	SMALL ELECTRICAL APPLIANCE INDUSTRY	11,150,210	7,492,577	-32.80%	6,398,443	-42.62%
3321	MAJOR APPLIANCE INDUSTRY (ELECTRIC & NON-ELECTRIC)	23,843,765	15,975,823	-33.00%	13,642,889	-42.78%

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3331	3332	3333	3341	3351	3352	3359	3361	3362	3369	3371	3372	3379	3381	3391	3392	3399	3511	3512	3521	3542	3549	3551	3561	3571	3581	3591	3592	3593	3594	3599	3611	3612	3699	3711	3712	3721	3722	3729	3731	3741
LIGHTING FIXTURE INDUSTRY	ELECTRIC LAMP & SHADE INDUSTRY (EXCEPT BULB & TUBE)	ELECTRIC LAMP (BULB & TUBE) INDUSTRY	RECORD PLAYER, RADIO & TELEVISION RECEIVER IND.	TELECOMMUNICATION EQUIPMENT INDUSTRY	ELECTRONIC PARTS & COMPONENTS INDUSTRY	OTH. COMMUNICATIONS & ELECTRONIC EQUIPMENT INDUSTRIES	ELECTRONIC COMPUTING & PERIPHERAL EQUIPMENT INDUSTRY	ELECTRONIC OFFICE, STORE & BUSINESS MACHINE INDUSTRY	OTH. OFFICE, STORE & BUSINESS MACHINE INDUSTRIES	ELECTRICAL TRANSFORMER INDUSTRY	ELECTRICAL SWITCHGEAR & PROTECTIVE EQUIP. IND.	OTH. ELECTRICAL INDUSTRIAL EQUIPMENT INDUSTRIES	COMMUNICATIONS & ENERGY WIRE & CABLE IND.	BATTERY INDUSTRY	NON-CURRENT CARRYING WIRING DEVICES INDUSTRY	OTHER ELECTRICAL PRODUCTS INDUSTRIES M.E.C.	CLAY PRODUCTS INDUSTRY (FROM DOMESTIC CLAY)	CLAY PRODUCTS INDUSTRY (FROM IMPORTED CLAY)	HYDRAULIC CEMENT INDUSTRY	STRUCTURAL CONCRETE PRODUCTS INDUSTRY	OTHER CONCRETE PRODUCTS INDUSTRIES	READY-MIX CONCRETE INDUSTRY	PRIMARY GLASS & GLASS CONTAINERS INDUSTRY	ABRASIVES INDUSTRY	LIME INDUSTRY	REFRATORIES INDUSTRY	ASBESTOS PRODUCTS INDUSTRY	GYPSUM PRODUCTS INDUSTRY	NON-METALLIC MINERAL INSULATING MATERIALS INDUSTRY	OTH. NON-METALLIC MINERAL PRODUCTS INDUSTRIES M.E.C.	REFINED PETROLEUM PRODUCTS INDUSTRIES (EXCEPT. LUBRICATING OIL	LUBRICATING OIL & GREASE INDUSTRY	OTHER PETROLEUM & COAL PRODUCTS INDUSTRIES	INDUSTRIAL INORGANIC CHEMICAL INDUSTRIES M.E.C.	INDUSTRIAL ORGANIC CHEMICAL INDUSTRIES M.E.C.	CHEMICAL FERTILIZER & FERTILIZER MATERIALS INDUSTRY	MIXED FERTILIZER INDUSTRY	OTHER AGRICULTURAL CHEMICAL INDUSTRIES	PLASTIC & SYNTHETIC RESIN INDUSTRY	PHARMACEUTICAL & MEDICINE INDUSTRY
2,750,725	2,008,402	273,855	5,923,477	18,817,528	374,998,706	120,368,255	17,389,379	301,108,356	34,326,056	18,482,776	8,251,705	24,879,659	16,509,520	9,994,179	3,667,650	11,725,393	128,363	8,892,228	225,008	70,037	623,383	30,778	13,969,391	8,875,189	0	1,396,823	938,947	304,742	3,485,547	615,557	18,796,339	1,469,040	20,568,908	307,138,655	228,803,430	2,956,652	450,435	7,044,172	167,003,224	32,189,288
-26.99%	-26.99%	-26.99%	-42.86%	-47.15%	105.70%	40.59%	-23.38%	86.88%	-55.10%	-0.94%	-60.54%	-36.61%	-55.15%	7.50%	-67.10%	97.91%	342.88%	-55.77%	-38.11%	293.65%	20.63%	20.63%	-7.56%	20.02%	ERR	55.45%	-70.07%	-99.55%	-13.35%	234.33%	-99.39%	24.43%	-92.43%	-40.01%	-9.53%	41.10%	208.57%	77.22%	74.13%	107.28%
1,715,117	233,864	5,058,477	16,069,623	320,238,007	102,190,995	14,850,025	257,137,793	0	15,382,641	15,783,754	7,046,716	21,246,506	14,098,651	8,534,739	1,030,383	19,817,410	485,475	3,358,494	118,919	235,442	642,199	31,706	11,027,823	9,096,185	0	1,854,254	239,979	1,164	2,579,115	1,757,476	97,150	1,561,028	1,329,007	157,344,942	176,766,427	3,562,638	1,186,956	10,660,594	248,340,373	56,979,050
-37.65%	-37.65%	-51.20%	-54.86%	75.67%	20.06%	-34.57%	59.59%	ERR	-61.73%	-15.40%	-66.30%	-45.86%	-61.70%	-8.20%	-71.91%	69.01%	278.20%	-62.23%	-47.15%	236.17%	3.02%	3.02%	-21.06%	2.49%	ERR	32.75%	-74.44%	-99.62%	-26.01%	185.51%	-99.48%	6.26%	-93.54%	-48.77%	-22.74%	20.50%	163.51%	51.34%	48.70%	77.01%

Table 17

ONTARIO AND CANADIAN EXPORTS TO OTHER COUNTRIES, EXCLUDING
THE UNITED STATES, BY MANUFACTURING INDUSTRIES, 1981 AND 1987

3751	PAINT & VARNISH INDUSTRY	1,444,095	1,767,751	22.41%	1,509,608	4.54%
3761	SOAP & CLEANING COMPOUNDS INDUSTRY	2,872,451	8,493,102	195.67%	7,252,863	152.50%
3771	TOILET PREPARATIONS INDUSTRY	3,348,762	5,805,434	73.36%	4,957,672	48.04%
3792	ADHESIVES INDUSTRY	1,106,107	1,213,529	9.71%	1,036,319	-6.31%
3799	OTHER CHEMICAL PRODUCTS INDUSTRIES M.E.C.	48,274,763	54,883,300	13.69%	46,868,745	-2.91%
3911	INDICATING, RECORDING & CONTROLLING INSTR. INDUS.	49,456,859	38,214,579	-22.73%	32,634,141	-34.01%
3912	OTH. INSTRUMENTS & RELATED PRODUCTS INDUSTRY	134,514,389	253,016,561	88.10%	216,068,797	60.63%
3913	CLOCK & WATCH INDUSTRY	22,592,408	2,523,745	-88.83%	2,155,205	-90.46%
3914	OPHTHALMIC GOODS INDUSTRY	3,233,499	5,916,178	82.97%	5,052,244	56.25%
3921	JEWELLERY & SILVERWARE INDUSTRY	29,696,468	35,206,660	18.56%	30,065,465	1.24%
3931	SPORTING GOODS INDUSTRY	21,325,244	18,946,008	-11.16%	16,179,341	-24.13%
3932	TOYS AND GAMES INDUSTRY	13,174,519	6,359,376	-51.73%	5,430,722	-58.78%
3971	SIGN & DISPLAY INDUSTRY	1,482,479	7,986,049	438.70%	6,819,854	360.03%
3991	BROOM, BRUSH & MOP INDUSTRY	64,138	297,641	364.06%	254,177	296.30%
3992	BUTTON, BUCKLE & CLOTHES FASTENER INDUSTRY	524,834	516,098	-1.66%	440,733	-16.02%
3993	FLOOR TILE, LINOLEUM & COATED FABRIC INDUSTRY	5,413,236	5,180,969	-4.29%	4,424,397	-18.27%
3994	MUSICAL INSTRUMENT & SOUND RECORDING INDUSTRY	484,731	939,808	93.88%	802,569	65.57%
3999	OTHER MANUFACTURED PRODUCTS INDUSTRIES M.E.C.	31,560,943	46,568,136	47.55%	39,767,836	26.00%

	TOTAL MANUFACTURING INDUSTRIES	6,441,261,598	6,529,118,696	1.36%	5,575,677,793	-13.44%

NOTE: Deflator used for 1987 Exports was 117.1.

SOURCE: Export Trade, Statistics Canada Catalogue 65-202, 1988.

Table 18

AVERAGE SALARIES OF ONTARIO ECONOMIC REGIONS
BY MAJOR MANUFACTURING GROUP
1983

	Central Ontario	Eastern Ontario	M-Eastern Ontario	M-Western Ontario	Southwestern Ontario
Proportion of Ontario Employment*	67.2	7.4	3.4	1.6	13.9
Proportion of Ontario Establishments	75.2	8.2	2.8	1.2	12.6
Food Industries	22 082	20 836	20 172	23 768	20 951
Beverage Industry	29 825	21 516	25 057	23 384	29 022
Tobacco Products	28 759				22 849
Rubber Products	24 568				24 883
Plastic Products	19 508	21 279			18 166
Wood	18 613	16 788	21 063	23 946	17 118
Furniture & Fixtures	18 612	18 173	14 938	14 977	16 687
Paper & Allied Products	24 220	27 781	31 189	30 906	22 222
Printing, Publishing & Allied	22 969	23 581	18 480	20 910	22 232
Primary Metal	29 367	25 132	30 320		
Fabricated Metal	22 872	22 109	20 676	23 394	23 850
Machinery Industries	23 947	22 330	21 930	22 720	22 790
Transport Equipment Industry	27 712	17 825	16 772	25 850	26 377
Electrical and Electronic Products	22 891	22 517			
Non-Metallic Mineral Products	24 632	26 025	23 448	22 209	23 396
Chemical and Chemical Products	24 251	30 177	28 445	30 857	34 945
Other Manufacturing	20 191	17 810	14 601	15 086	17 993
Other Major Groups	<u>21 533</u>	<u>23 750</u>	<u>18 568</u>	<u>13 125</u>	<u>21 623</u>
Total All Industries	23 141	22 384	27 082	28 329	24 932
Average Ontario Manufacturing	24 179				

Note: Column does not total to 100%, the 6.5% difference is assumed to be due to the unemployment rate and rounding.

Source: Principal Statistics of Economic Regions by Major Manufacturing Group - 1983, Statistics Canada, Cat. 31-209.